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THE STATE OF HAWAII
DATA BOOK

1985

A STATISTICAL ABSTRACT

DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT
NOVEMBER 1985

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This report was prepared by Robert C. Schmitt, State Statistician, with the assistance of Sharon Nishi, Karen Yamashita, and Bob Stanfield of the Hawaii State Data Center. The camera-ready copy was typed and proofread by Judy F. Noda, Helen T. Nagafuchi, and Charlotte N. L. Chow. All of the participating staff are members of the DPED's Research and Economic Analysis Division, headed by Dr. Richard Y. P. Joun. The maps were drawn by Stewart A. Wastell, illustrator in the DPED's Planning Division. Editing and printing arrangements were handled by the DPED's Information Office.

Copies of this report may be obtained for $5.00 each from the Information Office on the 7th floor of the Kamamalu Building, 250 South King Street, Honolulu, or ordered from out of State by sending $15.00 per copy (postpaid) to the DPED Information Office, P. O. Box 2359, Honolulu, Hawaii 96804.

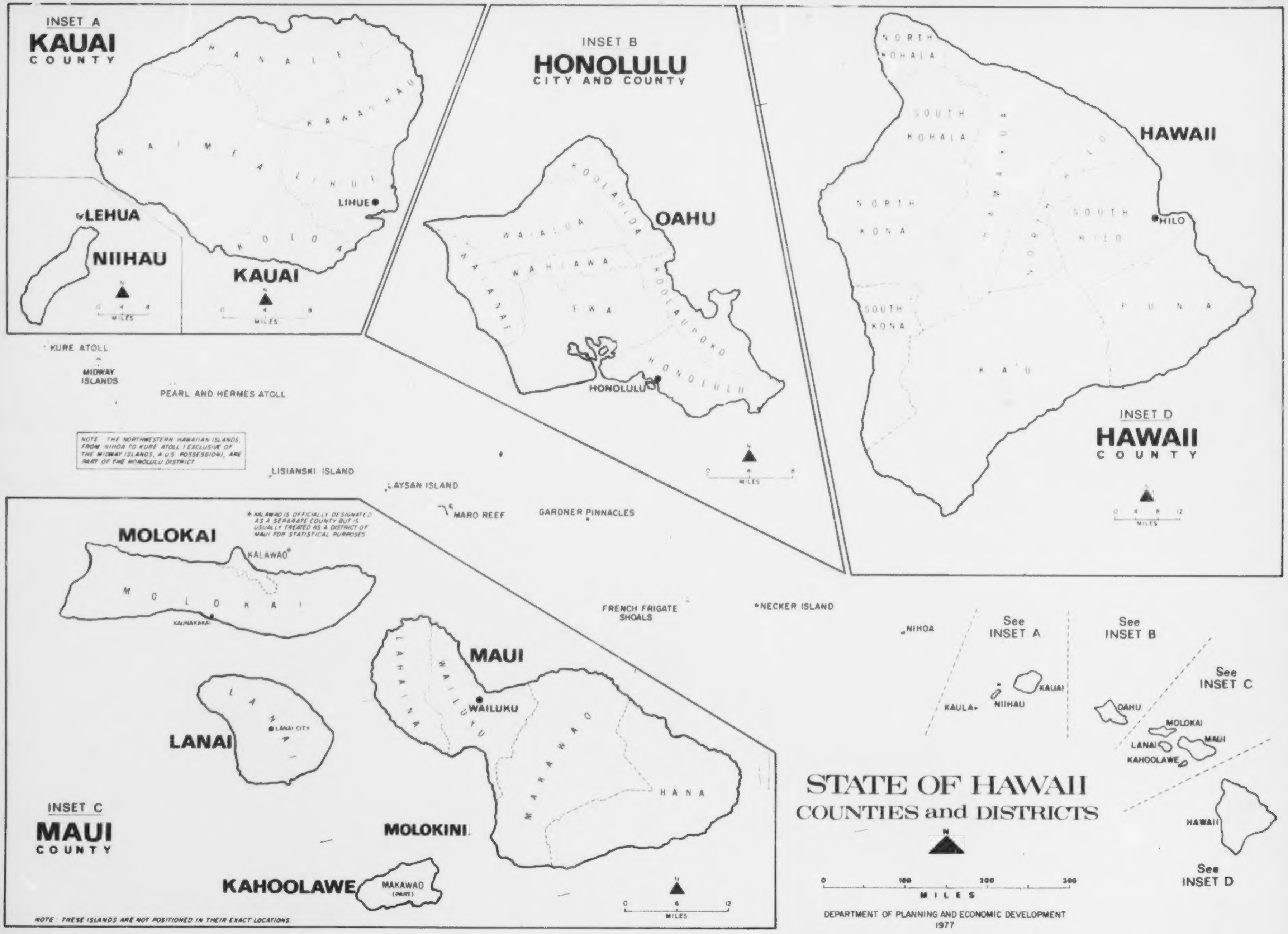
FOREWORD

By George R. Ariyoshi
Governor, State of Hawaii

Accurate, timely and substantial information is essential to sound decision-making. The State of Hawaii has long recognized that orderly State growth and planned prosperity require a continuing, efficient organization of statistical data and other information into forms which are easily used and readily available to all who need them. This State of Hawaii Data Book 1985 is the latest example of the State Administration's constant effort to provide and improve this important service to Hawaii's citizens.

The Data Book is invaluable for Government administrators. It is vital to all agencies, companies, organizations and individuals who carry out a great variety of forms of research in the Islands and overseas. It is very useful to other citizens who have only an occasional need for accurate statistics. It is a book which, thanks to the professionalism of its compilers, can be depended upon, and upon which thousands do depend. And it is only one--although perhaps the best one--of a large number of excellent data sources which Hawaii makes available.

Through such reference works, Hawaii is able to go about its myriad tasks with confidence that its information base is sound. This State of Hawaii Data Book 1985 is one of many proofs we have that our people know what they are doing, and where they are going, and are reasonably certain they can achieve their goals.



STATE OF HAWAII
COUNTIES and DISTRICTS

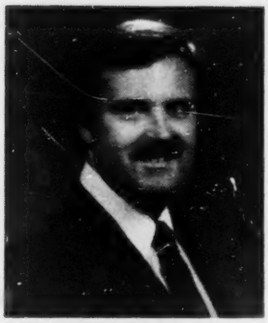
DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT
1977

NOTE: THE NORTHWESTERN HAWAIIAN ISLANDS, FROM NIHOA TO KURE ATOLL (EXCLUSIVE OF THE MIDWAY ISLANDS, A U.S. POSSESSION), ARE PART OF THE HONOLULU DISTRICT

* KALAWAO IS OFFICIALLY DESIGNATED AS A SEPARATE COUNTY BUT IS USUALLY TREATED AS A DISTRICT OF MAUI FOR STATISTICAL PURPOSES

NOTE: THESE ISLANDS ARE NOT POSITIONED IN THEIR EXACT LOCATIONS

INSET A
KAUAI COUNTY
HANALEI
KAWAIHAU
WAIMEA
LIHUE
KOLOA
LIHUE
LEHUA
NIIHAU
KAUAI
N
0 4 8 MILES
INSET B
HONOLULU CITY AND COUNTY
OAHU
KOOLAULOA
WAIALUA
WAIANAE
WAHIAWA
EWA
KOOLAUPOKO
HONOLULU
HONOLULU
N
0 4 8 MILES
INSET D
HAWAII COUNTY
HAWAII
NORTH KOHALA
SOUTH KOHALA
HAMAKUA
NORTH HILO
SOUTH HILO
HILO
NORTH KONA
SOUTH KONA
PUNA
KAU
N
0 4 8 12 MILES
KURE ATOLL
MIDWAY ISLANDS
PEARL AND HERMES ATOLL
LISIANSKI ISLAND
LAYSAN ISLAND
MARO REEF
GARDNER PINNACLES
FRENCH FRIGATE SHOALS
NECKER ISLAND
NIHOA
INSET C
MAUI COUNTY
MOLOKAI
KALAWAO*
MOLOKAI
KAUNAKAKAI
MAUI
WAILUKU
LAHAINA
WAILUKU
MAKAWAO
HANA
LANAI
LANAI
LANAI CITY
MOLOKINI
KAHOOLAWE
MAKAWAO (PART)
N
0 6 12 MILES
See INSET A
KAUAI
NIIHAU
KAULA
See INSET B
OAHU
See INSET C
MOLOKAI
MAUI
LANAI
KAHOOLAWE
HAWAII
See INSET D
N
0 100 200 300 MILES



INTRODUCTION

By Kent M. Keith
Director of Planning and Economic Development

The State of Hawaii Data Book: A Statistical Abstract is the standard official summary of statistics on the social, economic and political organization of the State. Like its long-established counterpart, the Statistical Abstract of the United States, it may be used as a convenient volume of statistical reference and as a guide to other statistical publications and sources.

The present volume, containing statistics available late in 1985, is the 19th such abstract to be published by the State of Hawaii. Earlier editions appeared in 1962, 1967, 1968, and annually beginning in 1970. Most of them are now out of print, but copies can be found in many high school, university and public libraries in Hawaii.

The Data Book follows closely the organization and format of the U.S. Abstract, to facilitate comparison of Hawaii data with corresponding series for the nation and other jurisdictions.

Emphasis in the Data Book is given to the most recent available State data. Historical statistics and information for Counties, islands, urban places, and smaller areas receive more limited attention. The publications cited as sources in the introductions to the various sections or at the end of each table usually contain additional statistical detail and a more comprehensive discussion of relevant definitions and concepts than can be presented here. Persons interested in more extensive information should consult these sources or write to the agencies responsible for them.

Many Federal, State, County and private organizations cooperated with our Research and Economic Analysis Division in the preparation of this report. These agencies are credited in the source references to the tables to which they contributed. Their assistance is gratefully acknowledged. Within our department, we would also like to acknowledge the DPED Library and Hawaii State Data Center, which were especially helpful in preparing this volume.

GUIDE TO TABULAR PRESENTATION

The tables in this report generally follow the principles of tabular presentation used by the U.S. Bureau of the Census in its annual publication, Statistical Abstract of the United States, and described in Bureau of the Census Manual of Tabular Presentation, published by the Bureau in 1950. These principles have been accepted by the Department of Planning and Economic Development for use in its publications and recommended to all other State agencies for official use.

Headnotes immediately below table titles provide information important for correct interpretation or evaluation of the table as a whole or for a major segment of it.

Unit indicators ("In thousands," "In millions of dollars," etc.) are usually given as the first element of the headnote. In tables where several units are used, the unit indicators are generally given in the stub or in the column headings.

Footnotes below the bottom rule of tables give information relating to specific items, figures or symbols within the table.

Parallel vertical rules are used to the right of a total column to indicate --

(1) that the components which follow add to the total;
(2) in the case of derived figures, that the underlying data are additive to their total.

A dash (-) represents zero in references to absolute values. In rates and percentages, a zero (0) is used.

In many tables, details will not add to the totals shown because of rounding.

Geographic coverage should be understood as Statewide, unless otherwise indicated in the table title, headnote, boxhead, or stub. All annual statistics should be understood as referring to calendar years unless otherwise indicated.

UNITED STATES AND METRIC WEIGHTS AND MEASURES

U.S.			to	Metric	Metric			to	U.S.
Length									
Inches	x	25.4	=	millimeters	millimeters	x	0.039	=	inches
Feet	x	0.305	=	meters	meters	x	3.281	=	feet
Statute miles	x	1.609	=	kilometers	kilometers	x	0.621	=	miles
Area									
Sq. feet	x	0.093	=	sq. meters	sq. meters	x	10.764	=	sq. feet
Acres	x	0.405	=	hectares	hectares	x	2.471	=	acres
Sq. miles	x	2.589	=	sq. kilometers	sq. kilometers	x	0.386	=	sq. miles
Volume and capacity									
Cubic feet	x	0.028	=	cu. meters	cu. meters	x	35.315	=	cu. feet
Cubic yards	x	0.765	=	cu. meters	cu. meters	x	1.308	=	cu. yards
Fluid ounces	x	29.573	=	milliters	milliters	x	0.034	=	fluid ounces
Quarts (liq.)	x	0.946	=	liters	liters	x	1.057	=	quarts (liq.)
Gallons (liq.)	x	3.785	=	liters	liters	x	0.264	=	gallons (liq.)
Mass									
Ounces (avdp.)	x	28.350	=	grams	grams	x	0.035	=	ounces (avdp.)
Pounds (avdp.)	x	0.454	=	kilograms	kilograms	x	2.205	=	pounds (avdp.)
Hundredweight	x	45.359	=	kilograms	kilograms	x	0.022	=	hundredweight
Short tons	x	0.907	=	metric tons	metric tons	x	1.102	=	short tons

Miscellaneous conversions
1 statute mile = 5,280 ft. = 1,760 yards
1 acre = 43,560 sq. feet
1 square mile = 640 acres
1 short ton = 2,000 pounds

Continued on next page.

UNITED STATES AND METRIC WEIGHTS AND MEASURES -- Con.

Fahrenheit	to	Celsius	Celsius	to	Fahrenheit
Temperature					
100 °F		37.8 °C	40 °C		104.0 °F
90		32.2	35		95.0
80		26.7	30		86.0
70		21.1	25		77.0
60		15.6	20		68.0
50		10.0	15		59.0
40		4.4	10		50.0
30		-1.1	5		41.0
20		-6.7	0		32.0
10		-12.2	-5		23.0
			-10		14.0

Source: U.S. National Bureau of Standards, Special Publication 304a; Department of Geography, University of Hawaii, Atlas of Hawaii, 2nd edition (1983), pp. 218-219.

POPULATION

This section presents statistics on the growth, geographic distribution, and composition of the population of Hawaii, and on the number and characteristics of migrants moving to and from the State.

Provisional estimates for 1984 indicate a resident population of 1,039,000. This total is well above the 1980 census count of 964,691 and the earlier counts of 500,000 in 1950, 256,000 in 1920, and 81,000 in 1884. These censuses and estimates include members of the armed forces stationed in Hawaii and their local dependents, a group making up 12 percent of the resident total when last surveyed. The 1984 de facto population -- which included 119,000 visitors present on an average day in that year but excluded more than 16,000 residents temporarily absent -- was 1,141,000. More than three-fourths of the 1984 de facto total was on Oahu, giving that island a density of 1,442 persons per square mile. The population of the State is relatively young -- the median age in 1980 was 28.3 years -- and racially diversified. The major unmixed groups, based on a 1983 sample survey, were Caucasians (24.5 percent of the non-barracks, non-institutional population) and Japanese (23.2 percent). In addition, 29.8 percent were of mixed race, primarily part Hawaiian. The same 1983 survey reported 314,000 households and 258,000 families in the State, with an average household size of 3.14. Migration has been a major factor in the growth of the population: between 1980 and 1984, there was a net in-migration (excluding military personnel and dependents) of 29,000, accounting for 41 percent of the total civilian population growth during that time. Immigrant arrivals in fiscal 1984 exceeded 8,900, mostly from the Philippines.

The principal sources for these data are the decennial population censuses conducted by the U.S. Bureau of the Census, the estimates developed annually by the Hawaii State Department of Health and Department of Planning and Economic Development in cooperation with the Bureau of the Census, the Hawaii Health Surveillance Program conducted regularly since 1969 by the Department of Health, the ongoing series on visitors present and residents absent maintained by the Hawaii Visitors Bureau, and the U.S. Immigration and Naturalization Service tabulations on immigration. The Department of Planning and Economic Development summarizes these data in two series of reports, both issued annually: The Population of Hawaii and Hawaii's In-Migrants. Other annual reports distributed by DPED contain population estimates for sub-county areas. Earlier figures on population and migration are given in Historical Statistics of Hawaii, Sections 1 and 3. Comparable national statistics on population and migration appear in Sections 1 and 3 of Statistical Abstract of the United States: 1985.

Table 1.-- POPULATION OF COUNTIES: 1831 TO 1980

[Population counts from missionary censuses of 1831-1832 and 1835-1836, censuses conducted by the Hawaiian government from 1850 to 1896, and censuses by the U.S. Bureau of the Census beginning in 1900. Data for 1831-1896 are on a de facto or unspecified basis; data for 1900 and later years are resident totals, including armed forces stationed in Hawaii. Based on county boundaries established in 1905 and 1909]

Census date	Total population		City and County of Honolulu	Hawaii County	Kauai County	Maui County (incl. Kalawao)
	Number	Percent change 1/				
1831-32 2/	130,313	...	29,755	45,792	12,024	42,742
1835-36 3/	108,579	-4.6	27,809	39,364	9,927	31,479
1850: January ..	84,165	-1.8	25,440	25,864	7,670	25,191
1853: Dec. 26 ..	73,138	-3.5	19,126	24,450	7,781	21,781
1860: Dec. 24 ..	69,800	-0.7	21,275	21,481	7,134	19,910
1866: Dec. 7 ...	62,959	-1.7	19,799	19,808	6,624	16,728
1872: Dec. 27 ..	56,897	-1.7	20,671	16,001	5,194	15,031
1878: Dec. 27 ..	57,985	0.3	20,236	17,034	5,811	14,904
1884: Dec. 27 ..	80,578	5.5	28,068	24,991	8,935	18,584
1890: Dec. 28 ..	89,990	1.8	31,194	26,754	11,859	20,183
1896: Sept. 27 .	109,020	3.3	40,205	33,285	15,392	20,138
1900: June 1 ...	154,001	9.4	58,504	46,843	20,734	27,920
1910: April 15 .	191,874	2.2	81,993	55,382	23,952	30,547
1920: January 1	255,881	3.0	123,496	64,895	29,438	38,052
1930: April 1 ..	368,300	3.6	202,887	73,325	35,942	56,146
1940: April 1 ..	422,770	1.4	257,696	73,276	35,818	55,980
1950: April 1 ..	499,794	1.7	353,020	68,350	29,905	48,519
1960: April 1 ..	632,772	2.4	500,409	61,332	28,176	42,855
1970: April 1 ..	769,913	2.0	630,528	63,468	29,761	46,156
1980: April 1 ..	964,691	2.3	762,565	92,053	39,082	70,991

1/ Annual rate since the preceding census, based on the formula for continuous compounding.

2/ Total population also reported as 129,814.

3/ Total population also reported as 108,393 and 108,568.

Source: Robert C. Schmitt, *Historical Statistics of Hawaii* (University Press of Hawaii, 1977), pp. 11-14; U. S. Bureau of the Census, *1980 Census of Population*, PC80-1-A13, Hawaii (October 1981), table 2.

Table 2.-- CHARACTERISTICS OF THE POPULATION: 1831 TO 1980

[See headnote to table 1]

Year	Percent urban	Males per 100 females	Percent under 15 years old	Percent white 1/	Percent born in Hawaii	Persons per household 2/
1831-32 .	10.3	105.3	26.1	(NA)	(NA)	(NA)
1935-36 .	12.0	(NA)	(NA)	(NA)	(NA)	(NA)
1850	17.2	110.1	(NA)	(NA)	(NA)	(NA)
1853	15.7	113.1	(NA)	2.3	97.5	(NA)
1860	20.5	116.1	(NA)	2.7	(NA)	(NA)
1866	21.5	120.4	26.5	3.8	(NA)	(NA)
1872	26.1	125.4	27.8	5.2	92.1	(NA)
1878	24.3	142.8	28.1	6.5	83.6	(NA)
1884	25.4	177.5	28.0	20.6	57.4	(NA)
1890	25.5	187.7	26.1	21.0	53.5	(NA)
1896	27.4	198.7	27.7	20.6	48.8	(NA)
1900	25.5	223.3	22.6	17.3	38.3	3.71
1910	30.7	178.9	29.5	20.4	45.1	(NA)
1920	36.1	144.3	35.5	19.2	53.3	(NA)
1930	53.7	152.8	36.2	20.0	58.2	(NA)
1940	62.5	137.6	30.9	24.5	65.8	4.46
1950	69.0	121.2	31.2	23.0	71.1	4.14
1960	76.5	114.8	34.4	32.0	66.6	3.87
1970	83.5	108.1	30.0	39.2	59.2	3.59
1980	86.5	105.2	23.4	34.4	57.8	3.15

NA Not available.

1/ Includes Portuguese, other Caucasians, and most Puerto Ricans. Data for 1970 and 1980 also include some persons of mixed race.

2/ Based on population in households.

Source: Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1977), pp. 8, 20, 25, 33, and 90; U.S. Bureau of the Census, 1980 Census of Population, General Population Characteristics, Hawaii, PC80-1-B13 (July 1982), tables 14, 17, and 20, and General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 61.

Table 3.-- RESIDENT POPULATION, BY MILITARY STATUS: 1970 TO 1984

[Excludes visitors present but includes residents temporarily absent]

Year	Total resident population	Armed forces 1/	Civilian population		
			All civilians	Military dependents 2/	Not military dependents
1970: April 1 .	769,913	55,142	714,771	61,858	652,913
July 1 ..	771,600	53,800	717,800	57,800	660,100
1971: July 1 ..	801,600	50,800	750,800	62,200	688,700
1972: July 1 ..	828,300	52,000	776,400	66,200	710,100
1973: July 1 ..	851,600	58,100	793,500	70,300	723,200
1974: July 1 ..	868,000	57,500	810,500	68,300	742,100
1975: July 1 ..	886,200	58,800	827,400	63,700	763,700
1976: July 1 ..	904,200	57,800	846,400	67,000	779,400
1977: July 1 ..	918,300	56,500	861,800	65,000	796,800
1978: July 1 ..	931,600	58,300	873,300	61,100	812,200
1979: July 1 ..	953,300	57,900	895,400	64,500	830,900
1980: April 1 .	964,691	57,056	907,635	64,023	843,612
July 1 ..	968,900	57,900	911,000	64,100	846,900
1981: July 1 ..	981,000	56,600	924,400	64,300	860,100
1982: July 1 ..	997,100	54,900	942,200	66,700	875,500
1983: July 1 ..	1,018,300	55,200	963,100	66,300	896,800
1984: July 1 3/	1,038,700	57,300	981,400	67,100	914,300

1/ These figures are the estimates developed by the U.S. Bureau of the Census for use in population estimation. They differ somewhat from corresponding figures from other sources.

2/ Dependents living in Hawaii, regardless of location of family head.

3/ Provisional estimates.

Source: Hawaii State Department of Planning and Economic Development, The Population of Hawaii, 1970-1984 (Statistical Report 173, February 2, 1985), table 1.

Table 4.-- RESIDENT AND DE FACTO POPULATION, BY RESIDENCE STATUS: 1970 TO 1984

Year	Resident population 1/		De facto population 2/	
	Total	Temporarily absent 3/	Total	Visitors present 3/
1970: April 1 ..	769,913	10,300	796,500	36,900
July 1 ...	771,600	10,000	798,600	36,900
1971: July 1 ...	801,600	9,400	833,100	40,900
1972: July 1 ...	828,300	8,600	869,800	50,100
1973: July 1 ...	851,600	9,800	901,300	59,600
1974: July 1 ...	868,000	7,800	923,700	63,500
1975: July 1 ...	886,200	9,000	943,500	66,300
1976: July 1 ...	904,200	9,400	970,300	75,500
1977: July 1 ...	918,300	9,000	992,300	83,000
1978: July 1 ...	931,600	9,300	1,014,300	92,000
1979: July 1 ...	953,300	9,300	1,042,700	98,700
1980: April 1 ..	964,691	9,600	1,052,700	97,600
July 1 ...	968,900	9,600	1,055,800	96,500
1981: July 1 ...	981,000	11,600	1,065,300	96,000
1982: July 1 ...	997,100	14,500	1,087,800	105,300
1983: July 1 ...	1,018,300	11,500	1,114,800	108,000
1984: July 1 4/	1,038,700	16,100	1,141,300	118,700

1/ The resident population is defined as the number of persons whose usual place of residence is in an area, regardless of physical location on the estimate or census date. It includes military personnel stationed or homeported in the area but excludes persons of local origin attending school or in military service outside the area.

2/ The de facto population is defined as the number of persons physically present in an area, regardless of military status or usual place of residence; it includes visitors present but excludes residents temporarily absent.

3/ Averages for 12-month periods centered on the estimate or census dates.

4/ Provisional estimates.

Source: Hawaii State Department of Planning and Economic Development, The Population of Hawaii, 1970-1984 (Statistical Report 173, February 2, 1985), table 2, and records.

Table 5.-- RESIDENT POPULATION OF ISLANDS: 1940 TO 1980

Island	1940	1950	1960	1970	1980
State of Hawaii	422,770	499,794	632,772	769,913	964,691
Hawaii	73,276	68,350	61,332	63,468	92,053
Kahoolawe	1	-	-	-	-
Maui 1/	46,919	40,103	35,717	38,691	62,823
Lanai	3,720	3,136	2,115	2,204	2,119
Molokai	5,340	5,280	5,023	5,261	6,049
Oahu 2/	257,664	353,006	500,394	630,497	762,534
Kauai	35,636	29,683	27,922	29,524	38,856
Niihau 3/	182	222	254	237	226
Northwestern Hawaiian Islands ..	-	14	15	31	31
French Frigate Shoals	-	14	(NA)	(NA)	4
Laysan Island	-	-	(NA)	(NA)	5
Kure Atoll	-	-	(NA)	(NA)	22
Other islands 4/	-	-	(NA)	(NA)	-
Midway Islands 5/	437	416	2,356	2,220	453
Johnston Atoll 5/	69	46	156	1,007	327
Palmyra Atoll 6/	32	-	-	-	-

NA Not available.

1/ Including Molokini, uninhabited.

2/ Including Sand Island (56 in 1970, 60 in 1980), Mokauea Island (12 in 1970, 11 in 1980), Ford Island (798 in 1970, 522 in 1980), and Moku o Loe (uninhabited in 1970, 16 in 1980). The combined total for Sand Island and Mokauea Island in 1960 was 36. These offshore islands were not reported separately in other census years.

3/ Including Lehua and Kaula, uninhabited.

4/ Nihoa, Necker Island, Gardner Pinnacles, Maro Reef, Lisianski Island, and Pearl and Hermes Atoll.

5/ Not part of the Territory or State of Hawaii.

6/ Part of the Territory of Hawaii but not the State of Hawaii.

Source: U.S. Bureau of the Census, decennial census bulletins on number of inhabitants, census tracts, and block statistics.

Table 6.-- RESIDENT POPULATION, BY COUNTIES: 1970 TO 1984

[Based on place of usual residence. Includes armed forces stationed or homeported in Hawaii and residents temporarily absent; excludes visitors present]

Date		State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County 1/
1970:	April 1 ...	769,913	630,528	63,468	29,761	46,156
	July 1	771,600	631,600	63,800	29,800	46,500
1971:	July 1	801,600	654,600	67,000	30,900	49,100
1972:	July 1	828,300	674,900	70,000	31,900	51,500
1973:	July 1	851,600	691,400	73,900	32,900	53,400
1974:	July 1	868,000	707,600	74,000	32,600	53,800
1975:	July 1	886,200	718,600	77,400	33,400	56,800
1976:	July 1	904,200	728,300	80,700	34,900	60,300
1977:	July 1	918,300	737,000	82,800	35,500	63,000
1978:	July 1	931,600	742,600	85,900	36,800	66,200
1979:	July 1	953,300	756,000	89,400	38,100	69,700
1980:	April 1 ...	964,691	762,565	92,053	39,082	70,991
	July 1	968,900	764,800	93,000	39,400	71,600
1981:	July 1	981,000	769,200	97,000	40,600	74,200
1982:	July 1	997,100	778,100	100,100	41,900	76,900
1983:	July 1	1,018,300	792,400	102,900	43,100	79,900
1984:	July 1 2/ .	1,038,700	805,300	106,400	44,000	83,100

1/ Including Kalawao County (Kalaupapa Settlement).

2/ Provisional estimates.

Source: Hawaii State Department of Planning and Economic Development, *Intercensal Population Estimates for Hawaii, 1940-1980* (Statistical Report 172, February 1, 1985), table 3, and *The Population of Hawaii, 1970-1984: Technical Supplement* (Statistical Memorandum 85-3, May 8, 1985), table 1.

Table 7.-- DE FACTO POPULATION, BY COUNTIES: 1970 TO 1984

[Includes all persons physically present in area, regardless of military status or usual place of residence. Includes visitors present but excludes residents temporarily absent, both calculated as averages for 12-month periods centered on estimate date]

Date		State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County 1/
1970:	April 1 ...	796,500	650,700	65,700	31,800	48,400
	July 1	798,600	650,200	66,600	32,300	49,400
1971:	July 1	833,100	675,300	70,600	34,000	53,100
1972:	July 1	869,800	702,200	74,500	35,800	57,200
1973:	July 1	901,300	726,400	78,700	36,900	59,400
1974:	July 1	923,700	746,500	79,500	36,800	60,900
1975:	July 1	943,500	757,100	83,300	38,100	65,100
1976:	July 1	970,300	772,900	86,800	40,100	70,500
1977:	July 1	992,300	786,800	89,300	41,300	74,900
1978:	July 1	1,014,300	797,200	93,400	43,600	80,100
1979:	July 1	1,042,700	816,000	96,700	45,200	84,800
1980:	April 1 ...	1,052,700	822,000	98,700	46,100	85,900
	July 1	1,055,800	823,600	99,500	46,400	86,400
1981:	July 1	1,065,300	826,300	102,600	47,500	89,000
1982:	July 1	1,087,800	839,700	105,600	48,500	94,000
1983:	July 1	1,114,800	849,700	110,600	50,700	103,800
1984:	July 1 2/ .	1,141,300	859,800	112,500	54,400	114,500

1/ Including Kalawao County (Kalaupapa Settlement).

2/ Provisional estimates.

Source: Hawaii State Department of Planning and Economic Development, Intercensal Population Estimates for Hawaii, 1940-1980 (Statistical Report 172, February 1, 1985), table 10; The Population of Hawaii, 1970-1984: Technical Supplement (Statistical Memorandum 85-3, May 8, 1985), table 1; and records.

Table 8.-- RESIDENT POPULATION OF COUNTIES AND DISTRICTS: 1970, 1980, AND 1984

County and district (see map on p. 6)	April 1, 1970	April 1, 1980	July 1, 1984	Percent change	
				1970 to 1980	1980 to 1984
State total	769,913	964,691	1,038,730	25.3	7.7
Hawaii County	63,468	92,053	106,403	45.0	15.6
Puna	5,154	11,751	16,530	128.0	40.7
South Hilo	33,915	42,278	44,301	24.7	4.8
North Hilo	1,881	1,679	1,576	-10.7	-6.1
Hamakua	4,648	5,128	5,192	10.3	1.3
North Kohala	3,326	3,249	3,403	-2.3	4.7
South Kohala	2,310	4,607	5,972	99.4	29.6
North Kona	4,832	13,748	18,226	184.5	32.6
South Kona	4,004	5,914	6,730	47.7	13.8
Ka'u	3,398	3,699	4,473	8.9	20.9
Maui County 1/	46,156	70,991	83,081	53.8	17.0
Hana	969	1,423	1,589	46.9	11.7
Makawao	9,979	19,005	21,430	90.4	12.8
Wailuku	22,219	32,111	38,323	44.5	19.3
Lahaina	5,524	10,284	13,229	86.2	28.6
Lanai	2,204	2,119	2,144	-3.9	1.2
Molokai	5,089	5,905	6,215	16.0	5.3
Kalawao	172	144	150	-16.3	4.2
City & Co. of Honolulu	630,528	762,565	805,266	20.9	5.6
Honolulu	324,871	365,048	379,585	12.4	4.0
Koolaupoko	92,219	109,373	113,269	18.6	3.6
Koolauloa	10,562	14,195	15,554	34.9	9.6
Waialua	9,171	9,849	10,534	7.4	7.0
Wahiawa	37,329	41,562	42,206	11.3	1.6
Waianae	24,077	31,487	33,410	30.8	6.1
Ewa	132,299	191,051	210,708	44.4	10.3
Kauai County	29,761	39,082	43,980	31.3	12.5
Hanalei	1,182	2,668	4,053	125.7	51.9
Kawaihau	7,393	10,497	11,954	42.0	13.9
Lihue	6,766	8,590	9,171	27.0	6.8
Koloa	6,851	8,734	10,381	27.5	18.9
Waimea	7,569	8,593	8,420	13.5	-2.0

1/ Including Kalawao County.

Source: U.S. Bureau of the Census, 1980 Census of Population, Number of Inhabitants, Hawaii, PC80-1-A13 (October 1981), table 4; Hawaii State Census Statistical Areas Committee, Estimated Population of Hawaii by Districts, 1984 (Report CTC-64, October 16, 1985).

Table 9.-- RESIDENT POPULATION, OF ISLANDS, CITIES, TOWNS, AND VILLAGES: 1980

[This table presents data for the 101 "census designated places" defined by the Hawaii State Department of Planning and Economic Development, in cooperation with the Bureau of the Census, for the 1980 decennial census, under authority granted by Sec. 26-18, Hawaii Revised Statutes. Although described in the legislation as "cities, towns, and villages," none of these places is an independent municipality with separate governmental and taxing powers; the boundaries determined for these places are statistical rather than political]

Island and place 1/	Resident population	Island and place 1/	Resident population
Hawaii	92,053	Maui and Molokini	62,823
Captain Cook	2,008	Haiku	619
Hakalau	250	Haliimaile	741
Hawi	795	Hana	643
Hilo	35,269	Honokahua	309
Holualoa	1,243	Kaanapali	541
Honokaa	1,936	Kahului	12,978
Honomu	559	Kihei	5,644
Kailua	4,751	Lahaina	6,095
Kainaliu	512	Lower Paia	1,500
Kapaau	612	Makawao	2,900
Keaau	775	Napili-Honokowai	2,446
Kealakekua	1,033	Paia	193
Kukuihaele	332	Pauwela	468
Laupahoehoe	500	Pukalani	3,950
Makapala	186	Puunene	572
Mountain View	540	Waihee	413
Naalehu	1,168	Waikapu	698
Ookala	401	Wailea	1,124
Paauilo	755	Wailuku	10,260
Pahala	1,619	Remainder of island	10,729
Pahoa	923		
Papaaloa	264	Kahoolawe	-
Papaikou	1,567		
Paukaa	544	Lanai	2,119
Puako	257	Lanai City	2,092
Waimea	1,179	Remainder of island	27
Wainaku	1,045		
Remainder of island	31,030		

Continued on next page.

Table 9.-- RESIDENT POPULATION, OF ISLANDS, CITIES, TOWNS, AND VILLAGES: 1980 -- Con.

Island and place 1/	Resident population
Molokai	6,049
Kaunakakai	2,231
Kualapuu	502
Maunaloa	633
Remainder of island	2,683
Oahu (including Northwestern Hawaiian Islands)	762,565
Ahuimanu	6,238
Aiea	32,879
Barbers Point Housing	1,373
Ewa	2,637
Ewa Beach	14,369
Haleiwa	2,412
Hauula	2,997
Heeia	5,432
Hickam Housing	4,425
Honolulu total	365,048
Oahu part	365,017
Northwestern Hawaiian Islands	31
Iroquois Point	3,915
Kaaawa	959
Kahaluu	2,925
Kahuku	935
Kailua	35,812
Kaneohe	29,919
Laie	4,643
Maili	5,026
Makaha	6,582
Makakilo City	7,691
Maunawili	5,239
Mililani Town	21,365
Mokapu	11,615
Oahu (con.):	
Nanakuli	8,185
Pearl City	42,575
Schofield Barracks	18,851
Wahiawa	16,911
Waialua	4,051
Waianae	7,941
Waimanalo	3,562
Waimanalo Beach	4,161
Waipahu	29,139
Waipio Acres	4,091
Whitmore Village	2,318
Remainder of island	46,344
Kauai	38,856
Anahola	915
Eleele	580
Hanalei	483
Hanamaulu	3,227
Hanapepe	1,417
Kalaheo	2,500
Kapaa	4,467
Kaumakani	888
Kekaha	3,260
Kilauea	895
Koloa	1,457
Lihue	4,000
Poipu	685
Princeville	500
Puhi	991
Wailua	1,587
Waimea	1,569
Remainder of island	9,435
Niihau, Lehua and Kaula	226

1/ For boundaries of places, see Hawaii State Department of Planning and Economic Development, Statistical Boundaries of Cities, Towns and Villages As Approved Through December 31, 1979 (Report SB-A15, March 13, 1980).

Source: U.S. Bureau of the Census, 1980 Census of Population, PC80-1-A13, Hawaii (October 1981), table 4, and unpublished final counts for places under 300 based on enumeration district data supplied February 13, 1981.

Table 10.-- POPULATION RANKING OF HONOLULU: 1980 TO 1984

Comparison 1/	Areas ranked		Honolulu ranking		
	Year	Number	1980	1983	1984
Honolulu MSA: 2/					
Among all MSAs and PMSAs	1984	328	55	55	56
Among all MSAs and CMSAs	1984	277	47	47	48
City and County of Honolulu: 3/					
Among all counties	1984	3,137	43	(NA)	40
Among all municipalities 4/	1980	19,097	12	(NA)	11
Honolulu CDP: 5/					
Among all incorp. places and CDPs .	1980	22,529	36	(NA)	(NA)

NA Not available.

1/ MSA, Metropolitan Statistical Area; PMSA, Primary MSA; CMSA, Consolidated MSA; CDP, Census Designated Place, that is, an unincorporated urban place.

2/ The Honolulu MSA consists of the City and County of Honolulu, comprising Oahu and the minor islets (except Midway) northwest of Niihau.

3/ The City and County of Honolulu consists of Oahu and the minor islets (except Midway) northwest of Niihau.

4/ Areas ranked in 1980 included all boroughs, cities, towns, villages, and other.

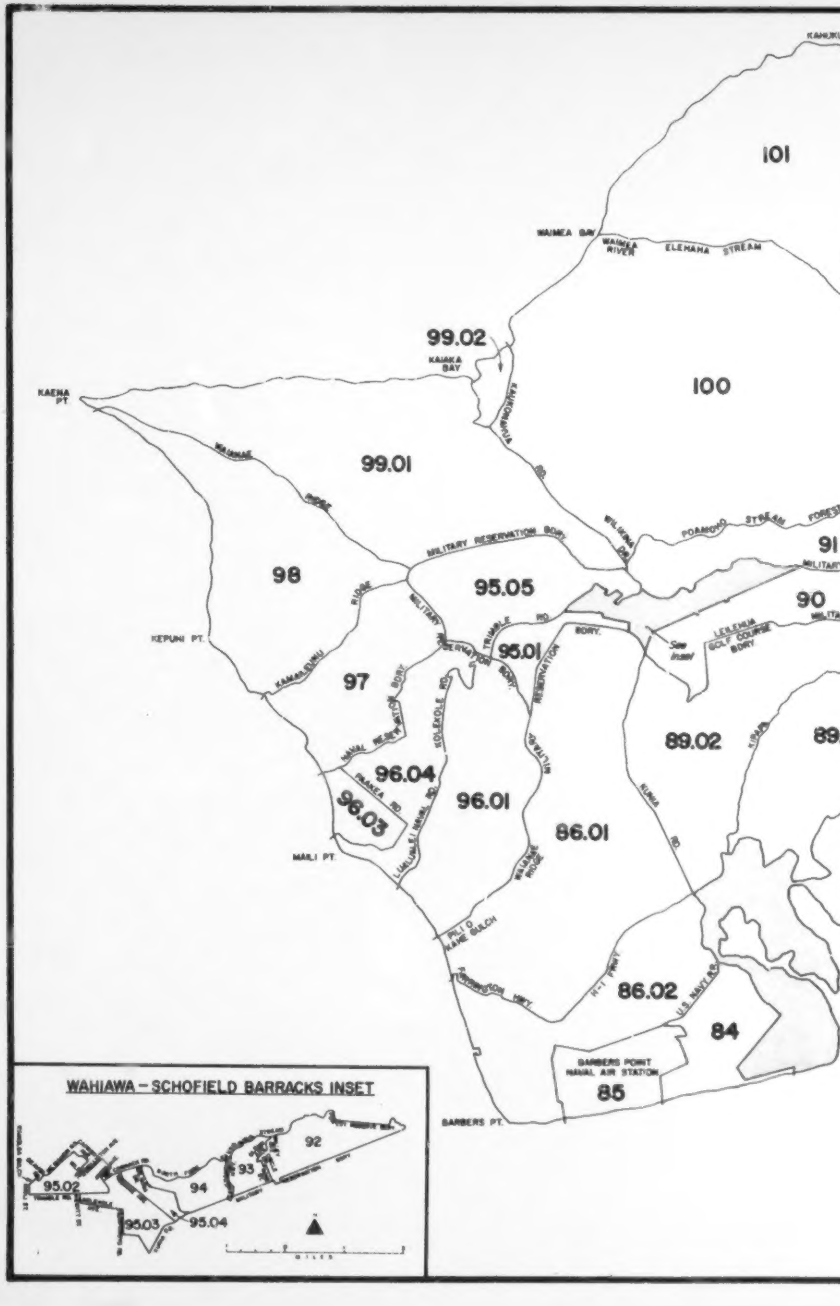
5/ The Honolulu CDP consists of Honolulu District, comprising the area between Red Hill and Makapuu Point, south and southwest of the crest of the Koolau Mountains, and the minor islets (except Midway) northwest of Niihau.

Source: U.S. Bureau of the Census letter to Hawaii State Data Center, May 22, 1985.

Table 11.-- POPULATION CHARACTERISTICS OF NEIGHBORHOODS, FOR OAHU: 1980

Neighborhood (see maps on pp. 547-548)	Resident population		Civilian labor force: percent unemployed	Households	
	Number	Percent foreign born		Number	Median income in 1979 (dollars)
Oahu total	762,534	14.8	4.6	230,214	21,077
1 Hawaii Kai	25,603	9.2	2.4	7,518	34,928
2 Kuliouou	14,172	9.8	3.6	4,316	37,986
3 Waialae-Kahala ...	11,474	10.5	2.3	3,882	37,385
4 Kaimuki	19,603	10.0	2.8	6,314	26,260
5 Diamond Head/ Kapahulu	21,191	14.6	3.3	7,853	20,453
6 Palolo	14,110	14.4	4.2	4,092	21,457
7 Manoa	22,605	10.8	3.8	6,536	27,347
8 McCully/Moiliili .	26,644	21.0	4.8	12,188	16,082
9 Waikiki	17,384	22.4	5.7	9,852	14,562
10 Makiki/Tantalus ..	28,695	10.0	3.7	14,050	17,179
11 Ala Moana/Kakaako	10,032	25.0	4.7	5,505	14,842
12 Nuuanu/Punchbowl .	16,166	13.7	4.1	5,361	22,714
13 Downtown	8,674	26.7	5.3	4,406	14,631
14 Liliha/Kapalama ..	21,068	19.1	4.0	6,429	22,107
15 Kalihi/Palama	40,144	35.4	5.0	10,837	14,280
16 Kalihi Valley	17,613	30.2	4.0	3,885	23,513
17 Moanalua	12,948	9.4	3.9	3,400	21,532
18 Aliamanu/Salt Lake	31,199	17.2	5.2	9,290	18,221
19 Airport	28,436	10.3	8.9	5,416	14,149
20 Aiea	30,084	12.2	4.6	8,925	25,393
21 Pearl City	42,577	12.2	4.1	11,140	29,345
22 Waipahu	33,927	26.1	5.9	8,261	23,865
23 Ewa	35,585	14.0	8.0	8,988	19,458
24 Waianae Coast	31,487	7.6	7.7	7,964	15,596
25 Mililani/Waipio ..	26,134	10.0	4.1	7,801	26,338
26 Wahiawa	41,562	11.4	8.5	10,271	13,343
27 North Shore	13,061	16.0	5.7	3,899	17,873
28 Koolauloa	10,983	19.9	3.7	2,687	15,426
29 Kahaluu	11,782	4.8	3.3	3,360	24,984
30 Kaneohe	35,553	5.6	4.4	9,698	28,652
31 Kailua	41,291	6.0	4.1	12,099	28,546
32 Waimanalo	9,132	8.3	5.8	2,137	19,407
33 Mokapu	11,615	6.1	9.9	1,854	13,814

Source: U.S. Bureau of the Census, 1980 Census of Population and Housing, Neighborhood Statistics Program, Hawaii, PHC80-SP1-13 (1983).



1980 CENSUS TRACTS

ISLAND OF OAHU

STATE OF HAWAII
DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT

N
2 0 2 4
MILES
KAHUKU PT
KINEWAMOKU ISLET
MOKUAUIA ISLAND
PULEMOKU ROCK
KUKUIHOOLUA ISLAND
MOKUALAI ISLAND
MOKOLII ISLAND
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102.02
102.01
100
99.02
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96.04
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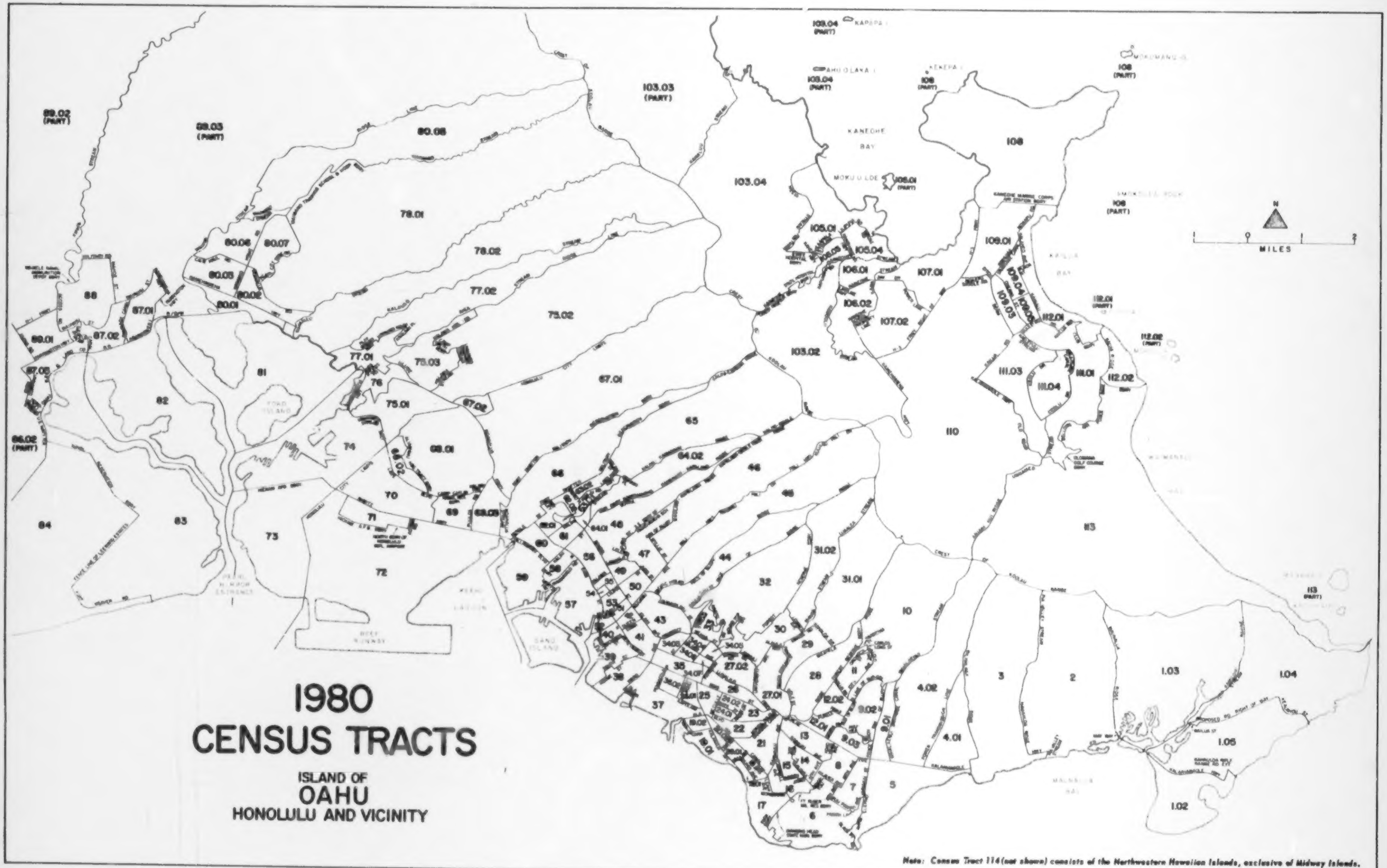
96.01
95.05
95.01
91
90
89.02
89.03
103.03
86.01
86.02
84
85
WAIMEA BAY
WAIMEA RIVER
ELEHAHA STREAM
MALAEKAHANA STREAM
KAIPAPAU STREAM
KAHANA BAY
CREST OF KOOLAU RANGE
KOOLAULOA - KOOLAUPOKO DISTRICT LINE
KAIAKA BAY
KAENA PT
KAUKONAHUA RD.
WILIKINA DR.
POAMOHO STREAM FOREST RESERVE BDRY.
MILITARY RESERVATION BDRY.
LEILEHUA GOLF COURSE BDRY
See Inset
WAIANAE RIDGE
KAMAILEUNU RIDGE
TRIMBLE RD.
NAVAL RESERVATION BDRY.
KOLEKOLE RD.
PAAKEA RD.
LUALUALEI NAVAL RD.
WAIEKELE RIDGE
PILI O KAHE GULCH
FARRINGTON HWY
H-1 FWY
KUNIA RD.
KIPAPA STREAM
RIDGE LINE
U.S. NAVY R.R.
KEPUHI PT.
MAILI PT.
BARBERS PT.
BARBERS POINT NAVAL AIR STATION
See Honolulu & vicinity map
WAHIAWA - SCHOFIELD BARRACKS INSET
95.02
95.03
95.04
94
93
92
MILES


103.04 (PART)
KAPAPA I.
AHU O LAKA I.
103.04 (PART)
KEKEPA I.
108 (PART)
MOKUMANU IS.
108 (PART)
103.03 (PART)
89.02 (PART)
89.03 (PART)
80.08
KANEOHE BAY
MOKU O LOE
106.01 (PART)
108
KANEOHE MARINE CORPS AIR STATION RESV.
MOKOLII ROCK
108 (PART)
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FORD ISLAND
PEARL HARBOR ENTRANCE
PEARL LAGOON
REEF RUNWAY
SAND ISLAND
105.01
105.05
105.04
106.01
106.02
107.01
107.02
103.02
109.01
109.04
109.05
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112.01
111.03
111.04
111.01
112.02
112.01 (PART)
112.02 (PART)
KAILUA BAY
WAIMANALO BAY
OLOMANA GOLF COURSE RESV.
110
113
113 (PART)
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64.02
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45
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31.02
31.01
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MAUNALUA BAY
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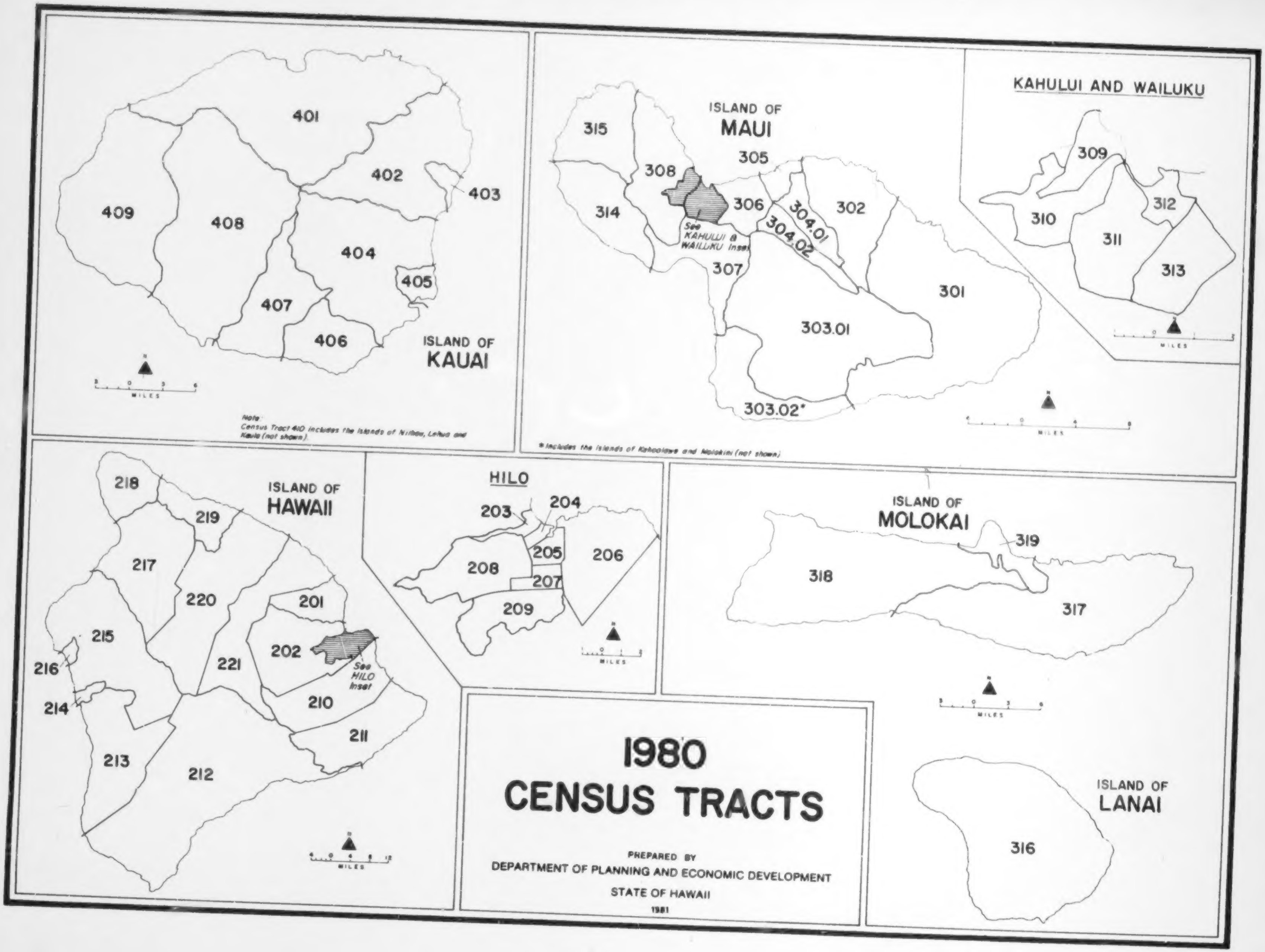
64.01
CREST OF KOOLAU RANGE
DIAMOND HEAD STATE MONUMENT
FT. RUGER MIL. RESV.
NORTH HONOLULU MIL. HOUSING
PROPOSED RD. RIGHT OF WAY
KAMILOIKI RD.
KALANIANAOLE HWY.

1980
CENSUS TRACTS

ISLAND OF
OAHU
HONOLULU AND VICINITY

Note: Census Tract 114 (not shown) consists of the Northwestern Hawaiian Islands, exclusive of Midway Islands.


ISLAND OF KAUAI
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409
MILES
KAHULUI AND WAILUKU
ISLAND OF MAUI
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303.02*
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See KAHULUI & WAILUKU Inset
MILES
ISLAND OF HAWAII
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221
See HILO Inset
MILES
HILO
203
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208
209
MILES
ISLAND OF MOLOKAI
317
318
319
MILES
ISLAND OF LANAI
316

Note:
Census Tract 410 includes the Islands of Niihau, Lehua and Kaula (not shown).

* Includes the islands of Kahoolawe and Molokini (not shown)

1980
CENSUS TRACTS

PREPARED BY
DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT
STATE OF HAWAII
1981

Table 12.-- RESIDENT POPULATION, 1970 TO 1984, AND AREA AND HOUSEHOLDS, 1980, FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS

Census tract (1980 definitions) 1/	Land area (acres)		Resident population			Households, 1980
	Total	Net 2/	Apr. 1, 1970	Apr. 1, 1980	July 1, 1984	
County total	381,632	222,639	630,528	762,565	805,300	230,214
Honolulu District	56,783	33,147	324,871	365,048	379,599	127,139
1.02	778	776	1,915	2,067	2,067	599
1.03	2,989	1,439	3,243	10,784	11,883	3,462
1.04 (1.01 pt.) ...	2,264	1,213	1,834	7,202	7,634	1,947
1.05 (1.01 pt.) ...	1,386	1,276	5,580	5,550	5,490	1,510
2	2,711	626	5,123	4,970	5,421	1,485
3	2,301	512	6,485	5,518	5,521	1,696
4.01	582	360	1,571	2,734	2,920	804
4.02	1,618	282	2,898	3,438	3,758	1,064
5	698	694	5,253	4,711	4,664	1,668
6	790	783	2,025	1,654	1,690	556
7	235	235	3,794	3,350	3,338	1,022
8	221	221	4,599	4,137	4,159	1,288
9.01	219	106	2,773	2,621	2,621	925
9.02	332	294	4,392	3,912	3,973	1,324
9.03	153	153	3,514	2,932	2,950	1,005
10	2,202	352	3,650	3,213	3,259	924
11	190	167	4,586	4,077	4,106	1,025
12.01	138	133	3,657	3,227	3,296	1,052
12.02	158	146	4,231	3,593	3,626	1,091
13	224	224	5,146	4,642	4,559	1,569
14	119	119	2,990	2,797	2,838	846
15	138	138	4,345	3,857	3,897	1,267
16	148	148	4,783	4,617	4,601	1,475
17	348	348	2,559	2,492	2,619	1,358
18.01	40	40	1,286	1,140	1,618	668
18.02	69	69	2,774	3,259	2,870	1,733
19.01	316	311	1,111	1,412	2,876	868
19.02	55	55	3,368	5,413	6,124	3,064
20.01	73	73	2,186	2,560	4,678	1,445
20.02	65	65	2,399	3,600	4,024	2,074
21	279	279	3,347	3,619	3,688	1,558
22	127	127	3,796	6,782	7,154	3,148
23	90	90	4,195	5,073	5,012	2,410
24.01	40	39	3,060	2,912	3,050	1,293
24.02	63	63	2,818	3,042	3,061	1,395
25	104	101	4,242	4,016	3,746	1,885

Continued on next page.

Table 12.-- RESIDENT POPULATION, 1970 TO 1984, AND AREA AND HOUSEHOLDS, 1980, FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS -- Con.

Census tract (1980 definitions) 1/	Land area (acres)		Resident population			Households, 1980
	Total	Net 2/	Apr. 1, 1970	Apr. 1, 1980	July 1, 1984	
Honolulu District, con.						
26	167	167	5,163	4,819	4,809	2,057
27.01	366	364	3,675	5,291	5,305	693
27.02	253	253	5,039	5,344	5,355	2,111
28	582	327	4,316	3,679	4,056	1,202
29	280	172	1,591	1,583	1,622	448
30	380	351	4,966	4,491	4,615	1,611
31.01	1,302	433	4,403	3,923	4,060	1,150
31.02	989	322	4,030	3,716	3,745	1,106
32	1,425	352	1,218	1,132	1,151	351
33	148	141	1,145	1,069	1,097	310
34.03	85	84	4,267	5,074	5,178	2,564
34.04 (34.01 pt.) ..	65	64	3,114	4,511	4,576	2,203
34.05 (34.01 pt.) ..	42	42	2,771	3,014	3,027	1,689
34.06 (34.02 pt.) ..	60	60	4,010	5,238	5,311	2,553
34.07 (34.02 pt.) ..	29	29	751	1,033	981	618
35	181	181	4,308	4,399	4,379	2,198
36.01	86	86	2,916	4,326	4,961	2,590
36.02	90	90	2,654	2,661	2,679	1,246
37	450	450	1,349	2,477	2,427	1,401
38	287	287	523	387	355	155
38.99 3/	...	...	314	-	(NA)	-
39	291	291	263	115	101	73
39.99 3/	...	...	134	108	108	-
40	70	70	100	820	1,235	498
41	165	165	4,097	4,320	4,274	2,240
42	63	63	1,162	2,637	2,637	1,524
43	323	275	5,628	5,339	5,302	2,163
44	867	243	6,142	5,274	5,290	1,486
45	1,955	437	4,780	5,042	5,338	1,800
46	1,751	458	4,377	3,928	3,933	1,187
47	343	342	5,500	4,893	4,994	1,495
48	831	510	6,608	6,146	6,196	1,720
49	99	98	3,292	3,165	3,136	982
50	130	130	3,973	4,075	4,254	1,368
51	46	46	-	1,611	2,057	759
52	41	41	1,405	858	1,323	248
53	84	84	482	4,529	4,529	1,506
54	22	22	1,862	1,718	1,718	409
55	53	53	1,975	2,106	2,098	636

Continued on next page.

Table 12.-- RESIDENT POPULATION, 1970 TO 1984, AND AREA AND HOUSEHOLDS, 1980, FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS -- Con.

Census tract (1980 definitions) 1/	Land area (acres)		Resident population			Households, 1980
	Total	Net 2/	Apr. 1, 1970	Apr. 1, 1980	July 1, 1984	
Honolulu District, con.						
56	227	226	5,768	5,794	6,099	1,550
57	1,123	1,119	2,615	1,556	1,450	752
57.99 3/	...	...	134	592	592	-
58	123	123	3,163	3,524	3,488	1,030
59	566	565	4,388	3,854	3,652	1,055
59.99 3/	...	...	61	21	21	-
60	176	171	6,711	5,663	5,493	1,352
61	113	111	3,262	3,381	3,422	773
62.01	130	129	4,295	4,741	4,695	1,165
62.02	24	21	2,523	2,665	2,665	609
63.01	171	167	3,713	3,315	3,318	732
63.02	123	109	3,083	2,945	2,984	549
64.01	46	45	1,400	1,737	1,801	348
64.02	646	147	5,280	5,579	5,577	1,321
65	2,311	311	4,011	4,037	4,055	935
66	1,418	1,418	3,424	2,716	2,716	696
67.01	4,726	1,253	7,502	7,477	7,598	1,851
67.02	105	105	2,317	2,755	2,755	853
68.01	1,273	1,102	2,968	20,689	23,451	6,568
68.02	163	163	4,532	4,890	5,042	1,176
68.03	277	261	-	-	-	-
69	280	280	3,694	3,109	3,109	913
70	704	704	4,899	4,251	4,251	1,294
71	227	227	1,402	2,588	2,588	609
72	3,446	3,028	3,864	1,364	1,743	155
114	1,722	1,722	31	31	31	-
Rest of county	324,843	189,492	305,657	397,517	425,701	103,075
73	1,661	1,597	7,530	6,393	6,393	1,732
73.99 3/	...	...	3,034	-	(NA)	-
74	1,313	1,305	4,016	3,138	3,138	713
74.99 3/	...	...	5,070	7,593	7,593	-
75.01	563	537	4,946	7,467	7,494	2,005
75.02	5,070	1,013	1,496	444	444	16
75.03	559	458	4,982	4,865	5,024	1,306
76	212	212	2,934	1,556	1,614	413
77.01	309	304	4,880	4,645	4,650	1,210
77.02	1,420	776	4,752	4,838	4,879	1,421
78.01 (78 pt. and 79)	6,703	2,068	5,559	12,813	14,914	3,527
78.02 (78 pt.)	3,219	757	895	11,367	12,712	4,051

Continued on next page.

Table 12.-- RESIDENT POPULATION, 1970 TO 1984, AND AREA AND HOUSEHOLDS, 1980, FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS -- Con.

Census tract (1980 definitions) 1/	Land area (acres)		Resident population			Households, 1980
	Total	Net 2/	Apr. 1, 1970	Apr. 1, 1980	July 1, 1984	
Rest of county, con.						
80.01	225	224	1,268	1,498	1,497	477
80.02	263	249	3,347	2,987	2,893	826
80.03	360	360	2,811	3,377	6,823	895
80.05	3,100	443	7,846	7,465	7,483	1,839
80.06 (80.04 pt.) ..	436	401	4,349	5,906	5,945	1,427
80.07 (80.04 pt.) ..	372	365	4,708	6,473	6,476	1,591
81	1,141	1,057	3,167	2,580	2,580	607
81.99 3/	...	...	368	-	(NA)	-
82	1,858	1,855	-	-	-	-
83	3,182	3,181	4,759	12,437	12,439	2,861
84	4,194	4,194	7,801	7,643	7,660	2,026
85	3,588	3,588	3,187	2,942	2,942	772
86.01	21,413	14,594	4,226	8,559	9,292	2,337
86.02	9,832	9,826	4,114	4,653	4,641	1,143
86.99 3/	...	...	-	21	21	-
87.01	342	334	5,958	7,284	7,296	1,518
87.02	262	253	4,509	3,854	3,819	911
87.03	421	416	2,238	3,468	3,487	1,116
88	688	663	3,429	4,484	4,913	992
89.01	330	324	7,328	7,861	7,911	1,984
89.02	17,739	12,433	4,420	25,874	30,960	7,764
89.03	14,467	6,515	2,369	6,566	12,783	1,626
90	6,609	6,609	2,783	2,413	2,413	672
91	8,224	3,169	3,410	3,339	3,712	798
92	715	645	6,637	7,420	7,615	2,195
93	298	246	4,875	4,451	4,485	1,429
94	425	278	6,048	5,040	5,084	1,743
95.01	1,862	1,396	3,762	3,587	3,587	887
95.02	321	321	4,901	5,326	5,326	1,466
95.03	443	443	2,566	6,076	6,076	1
95.04	207	207	1,495	955	955	249
95.05	6,212	6,212	858	2,955	2,955	831
96.01	10,010	7,833	4,024	5,159	5,903	1,111
96.03 (96.02 pt.) ..	1,730	1,694	5,100	5,711	5,815	1,439
96.04 (96.02 pt.) ..	5,034	4,913	4,530	4,165	4,178	975
97	7,603	4,793	6,020	10,524	11,497	2,697
98	13,753	4,405	4,403	5,928	6,018	1,742
99.01	22,302	13,543	4,529	5,350	5,553	1,613
99.02	998	980	2,817	2,620	3,087	753
100	45,977	18,259	1,825	1,879	1,894	478
101	19,229	10,222	3,497	4,491	5,616	1,496

Continued on next page.

Table 12.-- RESIDENT POPULATION, 1970 TO 1984, AND AREA AND HOUSEHOLDS, 1980, FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS -- Con.

Census tract (1980 definitions) 1/	Land area (acres)		Resident population			House-holds, 1980
	Total	Net 2/	Apr. 1, 1970	Apr. 1, 1980	July 1, 1984	
Rest of county, con.						
102.01	16,219	4,112	3,255	3,952	4,101	1,166
102.02	8,289	3,499	3,810	5,752	5,838	1,080
103.02	2,529	1,285	3,338	3,232	3,240	817
103.03 (103.01 pt.) .	10,356	3,936	3,413	3,593	3,719	1,013
103.04 (103.01 pt. and 104)	4,575	2,439	4,776	9,784	11,026	2,737
105.01	1,028	895	5,501	8,712	9,192	2,501
105.03 (105.02 pt.) .	145	137	2,033	1,804	1,808	510
105.04 (105.02 pt.) .	308	302	4,956	4,794	5,093	1,236
106.01	283	247	3,227	3,019	3,059	835
106.02	491	482	5,105	4,994	5,075	1,374
107.01	749	495	2,586	3,680	3,825	1,128
107.02	1,021	566	3,500	3,723	4,030	907
108	3,027	2,752	7,860	11,578	11,578	1,854
108.99 3/	...	...	-	37	37	-
109.01	826	426	3,374	3,161	3,195	924
109.03 (109.02 pt.) .	222	221	4,500	4,158	4,234	1,263
109.04 (109.02 pt.) .	232	232	3,874	3,506	3,598	999
109.05 (109.02 pt.) .	136	136	2,874	2,536	2,601	794
110	6,809	2,941	3,957	4,218	4,245	1,115
111.01	1,112	1,012	6,352	7,966	8,477	2,384
111.03 (111.02 pt.) .	807	659	2,145	3,872	3,938	1,017
111.04 (111.02 pt.) .	484	360	4,858	5,370	5,381	1,462
112.01	575	560	5,377	4,841	4,929	1,498
112.02	327	203	1,832	1,663	1,705	643
113	7,100	5,125	6,777	9,132	9,288	2,137

NA Not available.

1/ Most tract boundaries either remained unchanged between 1970 and 1980 or underwent only minor changes. In cases where the 1970 tracts were split or merged for 1980, however, the 1980 tract designation is followed in parentheses by the 1970 designations.

2/ Total land area less forest reserve and undevelopable open space.

3/ The ".99" census tracts consist of vessels anchored off the indicated tract.

Source: U.S. Bureau of the Census, 1970 Census of Population and Housing, Census Tracts, Honolulu SMSA, PHC(1)-88 (1972), and Census of Population and Housing, 1980: Summary Tape File 1A, Hawaii (1981); City and County of Honolulu, Department of General Planning, unpublished estimates of census tract areas and populations, 1984. The 1970 population of tracts split between 1970 and 1980 was approximated from 1970 data for blocks and enumeration districts.

Table 13.-- RESIDENT POPULATION, 1970 AND 1980, AND AREA AND HOUSEHOLDS, 1980, FOR HAWAII, MAUI, AND KAUAI COUNTIES, BY ISLANDS AND CENSUS TRACTS

County, island and census tract 1/	Land area (acres)	Resident population		Households, 1980
		1970	1980	
Total, 3 counties .	3,730,496	139,385	202,126	63,838
Hawaii County	2,581,888	63,468	92,053	29,237
201	74,828	5,503	5,261	1,558
202	154,950	2,059	1,748	502
203	908	3,435	4,292	1,744
204	710	3,531	4,003	1,342
205	1,672	4,604	5,672	1,826
205.99 2/	...	83	25	-
206	12,808	2,989	3,702	1,132
207	2,022	5,231	7,690	2,285
208	10,894	4,865	7,017	2,047
209	7,200	1,615	2,868	815
210	147,610	3,802	7,055	2,381
211	129,318	1,352	4,696	1,450
212	636,742	3,398	3,699	1,108
213	233,112	1,563	3,560	1,107
214	18,489	2,441	2,354	746
215	273,559	2,589	7,610	2,525
216	4,840	2,243	6,138	2,077
217	205,937	2,310	4,607	1,483
218	85,189	3,326	3,249	1,022
219	74,636	2,829	3,287	1,042
220	262,985	1,819	1,841	535
221	243,479	1,881	1,679	510
Maui and Kalawao Counties	751,936	46,156	70,991	22,581
Maui and Kahoolawe	495,104	38,691	62,823	20,162
301	148,941	969	1,423	435
302	38,548	2,067	3,567	1,096
303.01 (303 pt.)	92,037	2,024	3,850	1,317
303.02 (303 pt.)	45,442	100	1,227	474
304.01 (304 pt.)	10,430	2,494	4,366	1,341
304.02 (304 pt.)	10,892	1,629	4,285	1,254
305	4,931	1,665	1,710	553
306	12,743	781	220	92
307	22,348	1,636	6,020	2,103
307.99 2/	...	-	15	-
308	39,252	1,299	1,584	461
309	435	4,537	6,542	2,041
310	782	4,547	4,132	1,489

Continued on next page.

Table 13.-- RESIDENT POPULATION, 1970 AND 1980, AND AREA AND HOUSEHOLDS, 1980, FOR HAWAII, MAUI, AND KAUAI COUNTIES, BY ISLANDS AND CENSUS TRACTS -- Con.

County, island and census tract 1/	Land area (acres)	Resident population		Households, 1980
		1970	1980	
Maui and Kalawao, con.				
Maui and Kahoolawe, con.				
311	3,290	5,505	10,424	2,967
312	808	2,782	2,602	893
313	2,689	1,132	572	174
314	28,704	4,171	6,654	2,115
315	32,832	1,353	3,630	1,357
Lanai	89,856	2,204	2,119	650
316	89,856	2,204	2,119	650
Molokai	166,976	5,261	6,049	1,769
317	83,328	2,574	3,574	1,044
318	75,136	2,515	2,331	654
319 (Kalawao County) .	8,512	172	144	71
Kauai County	396,672	29,761	39,082	12,020
Kauai	351,616	29,524	38,856	11,979
401	80,166	1,182	2,668	902
402	42,294	3,599	6,030	1,829
403	2,179	3,794	4,467	1,425
404	50,368	3,642	4,590	1,181
405	3,909	3,124	4,000	1,389
406	15,123	3,141	3,879	1,240
407	23,518	3,660	4,855	1,523
407.99 2/	...	50	-	-
408	77,347	3,173	3,111	947
409	56,712	4,159	5,256	1,543
Niihau, Lehua and Kaula	45,056	237	226	41
410	45,056	237	226	41

1/ Most tract boundaries either remained unchanged between 1970 and 1980 or underwent only minor changes. In cases where the 1970 tracts were split or merged for 1980, however, the 1980 tract designation is followed in parentheses by the 1970 designations.

2/ The ".99" census tracts consist of vessels anchored off the indicated tract; for example, persons living aboard ships in Maalaea Bay, adjacent to tract 307, are assigned to tract 307.99.

Source: U.S. Bureau of the Census, Census of Population and Housing, 1980: Summary Tape File 1A, Hawaii (1981), 1970 Census of Population and Housing, Census Tracts, Honolulu SMSA, PHC(1)-88 (1972), Areas of Hawaii: 1960, GE-20, No. 13 (October 1967), p. 5, and revised acreage data for counties and islands supplied May 5, 1983. The 1970 population of census tracts split between 1970 and 1980 was approximated from 1970 data for blocks and enumeration districts.

Table 14.-- CENTERS OF POPULATION, FOR THE STATE, 1960 TO 1980, AND COUNTIES, 1970 AND 1980

["Center of population" is that point at which an imaginary flat, weightless, and rigid map of an area would balance if weights of identical value were placed on it so that each weight represented the location of one resident on the date of the census]

Geographic area	North latitude	West longitude	Approximate location
State:			
1960	21°12'50"	157°37'03"	7 mi. SE of Makapuu Point
1970	21°13'38"	157°39'20"	3.5 mi. SE of Blow Hole
1980	21.2009°	157.6129°	7 mi. SE of Koko Head
Geographic center 1/	20°15'	156°20'	24 mi. S of Kanahena Pt.
Hawaii County:			
1970	19°43'13"	155°19'22"	15 mi. W of Hilo
1980	19.7015°	155.3667°	17 mi. W of Hilo
Maui County:			
1970 2/	20°53'59"	156°33'06"	1 mi. NE of Iao Needle
1980	20.8809°	156.5184°	1 mi. SW of Wailuku PO
Kalawao County:			
1970 2/	...	...	...
1980	21.1930°	156.9766°	Kalaupapa
Honolulu County:			
1970	21°21'55"	157°53'18"	Tripler Hospital
1980	21.3704°	157.8946°	Moanalua Golf Course
Kauai County:			
1970	22°01'34"	159°28'19"	3.5 mi. SE of Kawaikini
1980	22.0065°	159.4659°	3.5 mi. N of Knudsen Gap

1/ Based on land area rather than population.

2/ Kalawao included with Maui in 1970.

Source: U.S. Bureau of the Census, Centers of Population for States and Counties, 1950, 1960, and 1970 (December 1974), pp. 3, 66, and Hawaii map, and 1980 measurements provided May 8, 1984; U.S. Department of Commerce, News Release NOS 73-80 (October 10, 1973). Cited in Hawaii State Census Statistical Areas Committee, Centers of Population, 1960-1980 (Report CTC-59, August 17, 1984).

Table 15.-- POPULATION AND LAND AREA, URBAN AND RURAL, BY COUNTIES: 1970 AND 1980

[Urban places are those with populations of 2,500 or more. Places with populations less than 2,500 and open country are classified as rural. For 1960 statistics, see Data Book 1984, tables 15 and 16]

County and type of area	Land area (square miles)		Resident population	
	1970	1980	1970	1980
State total	6,425.4	6,425	769,913	964,691
Urban	226.8	278	643,222	834,592
Rural	6,198.6	6,147	126,691	130,099
City and Co. of Honolulu	595.7	596	630,528	762,565
Honolulu Urbanized Area 1/	115.0	135	443,749	582,463
Kailua-Kaneohe Urbanized Area 2/	(3/)	34	(3/)	105,712
Other urban	37.3	15	146,225	47,116
Rural	443.4	412	40,554	27,274
Hawaii County	4,037.0	4,034	63,468	92,053
Urban	56.1	61	26,353	40,020
Rural	3,980.9	3,973	37,115	52,033
Kauai County	619.1	620	29,761	39,082
Urban	10.2	12	6,918	17,454
Rural	608.9	608	22,843	21,628
Maui County 4/	1,173.6	1,175	46,156	70,991
Urban	8.2	21	19,977	41,827
Rural	1,165.4	1,154	26,179	29,164

1/ The Honolulu Urbanized Area consists of Honolulu District (the area southwest of the crest of the Koolau Mountains, between Red Hill and Makapuu Point) and the adjacent urbanized territory circling Pearl Harbor, as far west as Waipahu and Ewa Beach in 1970 and 1980, and also extending to Whitmore Village and Schofield Barracks in 1980.

2/ The Kailua-Kaneohe Urbanized Area was initially defined as of 1980. It includes the urban territory on Windward Oahu, from Kahaluu through Waimanalo Beach.

3/ Included with "other urban."

4/ Including Kalawao County.

Source: 1970 from the Hawaii State Department of Planning and Economic Development, Land Use and Ownership Trends in Hawaii (Statistical Report 98, December 28, 1973), p. 19; 1980 from U.S. Bureau of the Census, 1980 Census of Population, PC80-1-A1, tables 25 and 34, and PC80-1-A13, table 3, and the Hawaii State Department of Planning and Economic Development, Statistical Memorandum 83-6 (May 18, 1983).

Table 16.-- POPULATION PROJECTIONS, RESIDENT AND DE FACTO, BY COUNTIES: 1980 TO 2005

[Thousands. As of July 1. Series M-F projections, recommended by DPED for State planning purposes]

Type of population and year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui 1/
Resident population: 2/						
1980 (est.)	969.0	765.0	204.0	92.8	39.3	71.9
1985	1,057.8	815.3	242.6	109.7	46.0	85.9
1990	1,138.4	859.3	279.1	122.6	55.1	101.4
1995	1,211.5	896.9	314.6	134.4	63.9	116.3
2000	1,267.8	925.7	342.2	143.2	69.1	129.9
2005	1,310.0	954.5	355.5	147.6	72.2	135.7
De facto population: 3/						
1980 (est.)	1,055.9	823.7	232.2	99.3	46.3	86.7
1985	1,166.4	883.4	283.0	118.2	54.2	110.6
1990	1,277.5	941.1	336.4	135.1	66.9	134.4
1995	1,373.0	985.2	387.8	150.6	79.3	157.9
2000	1,447.2	1,018.2	429.0	163.1	88.2	177.7
2005	1,501.0	1,052.1	448.9	168.6	92.2	188.1

1/ Includes Kalawao.
2/ For definition, see table 4, footnote 1.
3/ For definition, see table 4, footnote 2.

Source: Hawaii State Department of Planning and Economic Development, Population and Economic Projections for the State of Hawaii, 1980-2005 (July 1984), p. 11.

Table 17.-- TOTAL, RURAL, AND RURAL FARM POPULATIONS, BY COUNTIES: 1980

[For 1960 and 1970 data on rural farm population, based on the then-current definitions, see Data Book 1984, table 19]

County	Total	Rural 1/		
		Total	Farm, 1980 definition	Farm, 1970 definition
State total	964,691	129,968	4,523	5,636
Hawaii	92,053	52,033	2,821	3,425
Honolulu	762,565	27,459	843	924
Kalawao	144	144	-	-
Kauai	39,082	21,390	163	333
Maui	70,847	28,942	696	954

1/ The farm definition used in 1980 differed from that used in 1970 and 1960. In 1980, the annual dollar value of agricultural sales required for a place to be considered a farm was $1,000 or more. Previously a place could have as little as $50 of agricultural sales per year and qualify as a farm.

Source: U.S. Bureau of the Census, 1980 Census of Population, Supplementary Report, Rural and Farm Population by Current (1980) and Previous (1970) Farm Definitions, for States and Counties: 1980, PC80-S1-19 (April 1985).

Table 18.-- POPULATION BY AGE GROUP AND SEX: 1980

[For single-year data, see either the source or Data Book 1984, table 18]

Age	All persons	Sex		Island	
		Male	Female	Oahu	Other
All ages	964,691	494,683	470,008	762,565	202,126
Under 5 years	77,848	40,004	37,844	60,154	17,694
5 to 9 years	73,057	37,555	35,502	56,771	16,286
10 to 14 years	74,870	38,459	36,411	58,528	16,342
15 to 19 years	86,446	45,673	40,773	69,715	16,731
20 to 24 years	105,682	59,070	46,612	89,371	16,311
25 to 29 years	95,287	48,864	46,423	75,965	19,322
30 to 34 years	84,314	42,990	41,324	67,491	16,823
35 to 39 years	63,948	32,684	31,264	51,285	12,663
40 to 44 years	47,468	23,765	23,703	38,045	9,423
45 to 49 years	45,240	21,589	23,651	36,161	9,079
50 to 54 years	49,204	23,298	25,906	38,614	10,590
55 to 59 years	47,383	23,502	23,881	36,645	10,738
60 to 64 years	37,794	18,871	18,923	28,452	9,342
65 to 69 years	29,153	15,384	13,769	21,457	7,696
70 to 74 years	20,222	10,991	9,231	14,475	5,747
75 to 79 years	13,673	6,796	6,877	9,901	3,772
80 to 84 years	7,541	3,177	4,364	5,527	2,014
85 years and over ..	5,561	2,011	3,550	4,008	1,553
18 years and over ..	689,108	353,167	335,941	548,002	141,106
62 years and over ..	97,582	48,960	48,622	71,399	26,183
65 years and over ..	76,150	38,359	37,791	55,368	20,782
Median	28.3	27.6	29.1	28.0	29.6

Source: U.S. Bureau of the Census, Census of Population: 1980, General Population Characteristics, Hawaii, PC80-1-B13 (July 1982), table 19.

Table 19.-- POPULATION, BY AGE, SEX, AND MILITARY STATUS: 1980

Age in years	All groups	Armed forces		Military dependents 1/		Other civilians	
		Male	Female	Male	Female	Male	Female
Total	964,691	54,032	4,411	20,192	41,782	420,748	423,526
Under 1	17,113	-	-	1,590	1,495	7,075	6,953
1 to 4	59,871	-	-	5,498	5,415	25,375	23,583
5 to 9	73,311	-	-	5,529	5,161	32,330	30,291
10 to 14	74,747	-	-	3,772	3,617	34,861	32,497
15 to 19	86,054	5,598	411	2,184	2,841	37,958	37,062
20 to 24	105,987	21,970	1,937	636	5,738	36,687	39,019
25 to 29	95,453	9,960	1,237	408	5,923	38,249	39,676
30 to 34	84,781	7,345	447	144	5,104	35,960	35,781
35 to 39	65,309	4,939	113	82	3,210	28,315	28,650
40 to 44	46,740	2,534	83	18	1,537	20,876	21,692
45 to 49	43,486	1,001	88	34	812	19,725	21,826
50 to 54	49,611	428	65	93	422	22,594	26,009
55 to 59	48,155	185	18	57	169	23,874	23,852
60 to 64	38,108	63	12	33	99	18,818	19,083
65 to 69	28,653	-	-	80	121	15,158	13,294
70 to 74	20,524	-	-	24	76	10,928	9,496
75 to 79	13,649	9	-	-	17	6,603	7,020
80 to 84	7,607	-	-	5	20	3,281	4,301
85 and over	5,532	-	-	5	5	2,081	3,441
Under 15	225,042	-	-	16,389	15,688	99,641	93,324
15 to 64	663,684	54,023	4,411	3,689	25,855	283,056	292,650
65 and over	75,965	9	-	114	239	38,051	37,552
Median (years) .	28.4	24.9	24.6	7.7	22.1	29.7	30.4

1/ Military dependents are defined as civilians in families in which either the householder or the householder's spouse is in the armed forces.

Source: Hawaii State Department of Planning and Economic Development, *Population Characteristics of Hawaii by Military Status, 1980* (Statistical Report 163, September 30, 1983), table 4.

Table 20.-- ESTIMATED POPULATION, BY AGE: ANNUALLY, 1980 TO 1984

[In thousands. Resident population, including armed forces stationed in Hawaii]

Age	April 1, 1980 1/	July 1, 1981 2/	July 1, 1982 2/	July 1, 1983 2/	July 1, 1984 3/
All ages	965	981	997	1,018	1,039
Under 5 years	78	81	84	87	90
5 to 14 years	148	147	148	150	152
15 to 24 years	192	190	187	186	186
25 to 34 years	180	185	187	189	192
35 to 44 years	111	116	125	132	140
45 to 54 years	94	92	91	91	91
55 to 64 years	85	88	91	93	95
65 years and over	76	81	85	89	94
5 to 17 years	198	196	195	196	197
18 to 24 years	142	141	140	140	141
25 to 44 years	291	302	311	322	332
45 to 64 years	180	180	182	184	186
14 years and over	754	767	779	796	813
16 years and over	723	737	750	766	782
18 years and over	689	704	718	735	752
21 years and over	631	645	660	677	694

1/ Census count.
2/ Revised from Data Book 1984, table 20.
3/ Provisional estimate.

Source: U.S. Bureau of the Census, "State Population Estimates, by Age and Components of Change: 1980 to 1984," *Current Population Reports, Population Estimates and Projections*, Series P-25, No. 970, June 1985.

Table 21.-- ESTIMATED POPULATION, BY AGE AND SEX, FOR COUNTIES: JULY 1, 1982

[Provisional estimates]

Sex and age	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
Total	997,844	781,907	98,597	41,290	76,050
Males	510,724	401,116	49,878	21,089	38,641
Under 5 years	43,087	32,786	4,786	1,987	3,528
5 to 9 years	36,690	28,048	4,014	1,649	2,979
10 to 14 years	38,603	29,825	4,044	1,685	3,049
15 to 19 years	43,282	34,592	3,963	1,617	3,110
20 to 24 years	60,210	51,970	3,701	1,546	2,993
25 to 34 years	96,130	76,260	8,746	3,761	7,363
35 to 44 years	63,121	49,892	6,088	2,428	4,713
45 to 54 years	44,259	34,943	4,324	1,805	3,187
55 to 64 years	43,549	33,222	4,683	2,007	3,637
65 to 74 years	28,161	20,098	3,644	1,708	2,711
75 years and over	13,632	9,480	1,885	896	1,371
Females	487,120	380,791	48,719	20,201	37,409
Under 5 years	41,114	31,226	4,646	1,920	3,322
5 to 9 years	34,600	26,380	3,856	1,598	2,766
10 to 14 years	36,244	27,891	3,869	1,614	2,870
15 to 19 years	38,373	30,441	3,669	1,487	2,776
20 to 24 years	47,539	39,222	3,784	1,518	3,015
25 to 34 years	92,457	72,922	8,873	3,565	7,097
35 to 44 years	60,634	48,060	5,647	2,368	4,559
45 to 54 years	47,964	37,799	4,666	1,974	3,525
55 to 64 years	45,488	34,851	4,847	2,054	3,736
65 to 74 years	26,306	19,682	3,029	1,297	2,298
75 years and over	16,401	12,317	1,833	806	1,445

Source: Hawaii State Department of Planning and Economic Development, Estimated Population by Age, Sex, and Counties, 1970 to 1982 (Statistical Report 179, November 12, 1985).

Table 22.-- PROJECTED RESIDENT POPULATION, BY AGE AND SEX: 1985, 1995, AND 2005

[Thousands. As of July 1. Series M-F projections, recommended by DPED for Statewide planning purposes. For 1980 estimate and 1990 and 2000 projections, see source or Data Book 1984, table 22]

Age in years	1985			1995			2005		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total .	1,057.8	539.9	517.9	1,211.5	613.2	598.3	1,310.0	659.8	650.1
0 to 4	85.1	43.6	41.5	91.3	46.7	44.6	91.3	46.8	44.5
5 to 9	78.1	40.3	37.7	87.0	44.8	42.2	88.8	45.7	43.1
10 to 14 ...	74.9	38.5	36.4	82.1	42.1	40.0	85.7	43.9	41.7
15 to 19 ...	83.1	44.7	38.5	85.2	45.8	39.4	89.0	47.7	41.3
20 to 24 ...	110.4	62.6	47.7	109.5	62.8	46.6	109.6	63.1	46.6
25 to 29 ...	100.0	51.2	48.8	101.2	52.8	48.4	98.8	51.7	47.0
30 to 34 ...	93.8	47.4	46.3	99.6	51.0	48.7	96.8	50.0	46.8
35 to 39 ...	79.9	40.5	39.4	93.5	47.4	46.1	93.8	48.1	45.7
40 to 44 ...	62.9	31.4	31.4	84.1	41.9	42.2	89.6	45.2	44.4
45 to 49 ...	50.1	24.4	25.7	72.7	35.6	37.1	84.3	41.7	42.6
50 to 54 ...	47.3	22.4	24.9	62.2	30.1	32.1	77.5	37.9	39.7
55 to 59 ...	47.1	22.4	24.7	53.2	25.4	27.8	68.6	33.1	35.5
60 to 64 ...	43.7	21.1	22.6	47.2	22.2	25.0	59.0	28.0	31.0
65 to 69 ...	36.0	17.9	18.2	42.1	19.7	22.5	50.0	23.2	26.8
70 to 74 ...	26.7	13.5	13.2	35.7	16.5	19.2	41.6	18.7	22.8
75 to 79 ...	18.1	9.0	9.1	27.4	12.5	14.9	33.1	14.4	18.8
80 to 84 ...	11.2	5.2	6.0	18.5	8.2	10.3	24.0	9.9	14.1
85 and over	9.5	3.8	5.8	19.0	7.7	11.3	28.6	10.8	17.8
Median age .	29.9	28.9	30.9	32.5	31.1	33.9	34.7	33.1	36.5

Source: Hawaii State Department of Planning and Economic Development, Population and Economic Projections for the State of Hawaii, 1980-2005 (July 1984), pp. 12-13.

Table 23.-- CENTENARIAN POPULATION AND DEATHS: 1980 TO 1984

Subject	Number			Age of oldest (years)	
	Both sexes	Male	Female	Male	Female
Persons 100 years and over:					
April 1980 1/	113	51	62	110+	110+
Dec. 1983 2/	70	30	40	110	109
Dec. 1984 2/	88	36	52	(NA)	(NA)
Deaths 100 and over:					
1980	13	3	10	102	109
1981	20	9	11	103	105
1982	23	5	18	102	105
1983	23	4	19	106	113
1984	20	7	13	110	105

NA Not available.
1/ Census data.
2/ Social Security beneficiaries in force.

Source: Hawaii State Department of Health and Department of Planning and Economic Development, Extreme Old Age in Hawaii (Population Report, No. 14, November 1982); U.S. Department of Human Services, Social Security Administration, Division of Statistical Operations and Services, records; Hawaii State Department of Health, Research and Statistics Office, records.

Table 24.-- ETHNIC STOCK BY MILITARY STATUS: 1983

[Excludes persons in institutions or military barracks, on Niihau, or in Kalawao. Based on a sample survey of 15,250 persons]

Ethnic stock 1/	Total		Armed forces	Military dependents	Other civilians
	Number	Percent			
All groups	985,722	100.0	41,502	73,400	870,820
Unmixed	692,325	70.2	37,956	58,985	595,384
Caucasian	241,872	24.5	28,107	42,234	171,532
Japanese	228,341	23.2	572	809	226,960
Chinese	46,793	4.7	411	264	46,118
Filipino	111,607	11.3	1,692	5,057	104,858
Hawaiian	8,148	0.8	129	55	7,964
Korean	13,419	1.4	412	1,155	11,852
Black	16,179	1.6	6,028	7,583	2,568
Puerto Rican	6,524	0.7	389	1,042	5,093
Samoan	9,992	1.0	-	89	9,903
Other unmixed or unknown ..	9,451	1.0	216	699	8,536
Mixed	293,397	29.8	3,546	14,415	275,436
Part Hawaiian	188,657	19.1	1,227	3,489	183,941
Non Hawaiian	104,740	10.6	2,319	10,926	91,495

1/ Definitions used in this table differ widely from those in reports of the U.S. Bureau of the Census. Persons of mixed race are shown separately in this table but in 1980 census tabulations are assigned to one of the unmixed groups on the basis of self-identification or race of mother.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 25.-- ETHNIC STOCK, BY COUNTIES: 1983

[Excludes persons in institutions or military barracks, on Niihau, or in Kalawao. Based on a sample survey of 15,250 persons]

Ethnic stock	State total	City and Co. of Honolulu	Hawaii County	Kauai County	Maui County
All groups	985,722	760,834	102,385	43,194	79,310
Unmixed	692,325	550,079	61,741	28,611	51,894
Caucasian	241,872	192,236	21,669	7,495	20,472
Japanese	228,341	176,074	25,130	10,977	16,160
Chinese	46,793	44,722	1,171	208	692
Filipino	111,607	80,209	10,600	9,105	11,693
Hawaiian	8,148	5,440	1,250	184	1,274
Korean	13,419	12,616	332	188	283
Black	16,179	15,752	252	90	85
Puerto Rican	6,524	5,430	833	114	147
Samoan	9,992	9,850	106	-	36
Other unmixed and unknown	9,451	7,750	398	250	1,052
Mixed	293,397	210,755	40,644	14,583	27,416
Part Hawaiian	188,657	128,503	30,496	9,730	19,927
Non Hawaiian	104,740	82,252	10,147	4,852	7,489

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 26.-- POPULATION BY RACE AND SPANISH ORIGIN, BY COUNTIES: 1980

Race and Spanish origin	State total	City and Co. of Honolulu	Other counties			
			Hawaii	Kalawao	Kauai	Maui
Total persons	964,691	762,565	92,053	144	39,082	70,847
Race: 1/						
White	331,925	262,604	32,198	21	11,565	25,537
Black	17,687	17,203	278	-	59	147
American Indian	2,833	2,348	316	-	63	106
Eskimo	74	69	-	-	-	5
Aleut	69	28	17	-	-	24
Japanese	239,734	190,218	24,446	23	9,606	15,441
Chinese	55,916	52,301	1,600	9	587	1,419
Filipino	132,075	96,421	12,746	26	9,944	12,938
Korean	17,453	16,566	522	1	128	236
Asian Indian	708	637	25	-	-	46
Vietnamese	3,403	3,251	139	-	-	13
Hawaiian	118,251	81,868	17,317	59	6,057	12,950
Guamanian	1,630	1,470	49	-	64	47
Samoan	14,349	13,975	219	3	63	89
Other Asian and Pacific Islander	7,140	6,410	490	2	24	214
Race n.e.c.	21,444	17,196	1,691	-	922	1,635
Spanish origin: 2/						
Spanish origin	71,399	54,619	8,261	1	3,226	5,292
Not of Spanish origin ..	893,292	707,946	83,792	143	35,856	65,555

n.e.c. Not elsewhere classified.

1/ Persons of mixed race classified by self-identification or race of mother. Data are not comparable either to earlier censuses or to such surveys as the Hawaii Health Surveillance Program. The latter survey reported that 27.3 percent of the population in households in 1980 was of mixed race (17.9 percent Part Hawaiian and 9.4 percent non-Hawaiian).

2/ For a cross-tabulation of Spanish origin by race, see the following table.

Source: U.S. Bureau of the Census, Census of Population: 1980, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (1983), tables 58 and 59.

Table 27.-- SPANISH ORIGIN BY RACE: 1980

[Unless otherwise specified, data are based on a 15.7-percent sample]

Race	Total	Spanish origin 1/	Not of Spanish origin
All races	964,691	71,399	893,292
White	331,925	20,857	311,068
Black	17,687	721	16,966
Amer. Indian, Eskimo, and Aleut	2,976	271	2,605
Asian and Pacific Islander	590,659	34,814	555,845
Race not elsewhere classified	21,444	14,636	6,808
Asian and Pacific Islander 2/	601,000	38,580	562,420
Chinese 2/	55,780	1,240	54,540
Filipino 2/	134,960	22,540	112,420
Hawaiian 2/	122,660	11,520	111,140
Japanese 2/	241,580	1,900	239,680
Other Asian and Pacific Islander 2/	46,020	1,380	44,640

1/ Includes 9,126 Mexican, 20,083 Puerto Rican, 457 Cuban, and 41,733 other Spanish.

2/ Based on the 5-percent Public Use Microdata Sample.

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13, tables 58 and 59 (June 1983), tables 58 and 59, and Census of Population and Housing, 1980, Public Use Microdata Sample A-5 Percent (Hawaii), special tabulation by Hawaii State Data Center.

Table 28.-- ANCESTRY: 1980

Ancestry group 1/	Persons who reported --		
	At least one specific ancestry group	A single ancestry group	A multiple ancestry group
Total 2/	901,210	632,972	268,238
Dutch	10,554	1,886	8,668
English	96,223	33,262	62,961
French	26,429	3,926	22,503
German	82,982	22,181	60,801
Irish	68,041	12,845	55,196
Italian	13,994	5,331	8,663
Portuguese	57,541	26,447	31,094
Scottish	24,300	3,387	20,913
Afro-American	15,612	13,200	2,412
Chinese	91,305	45,062	46,243
Filipino	139,621	105,973	33,648
Japanese	246,000	214,964	31,036
Korean	20,854	15,091	5,763
Puerto Rican	14,997	7,082	7,915
Spanish/Hispanic	17,208	4,001	13,207
Hawaiian 3/	136,341	61,226	75,115
American Indian	11,728	2,210	9,518

1/ Shown separately for all groups over 10,000.

2/ Numbers by ancestry group do not add to total because persons reporting a multiple ancestry are included in more than one group.

3/ The U.S. total for persons with Hawaiian ancestry was 202,054, including 84,104 reporting a single ancestry group and 117,950 reporting a multiple ancestry group. Out of 65,708 Mainland residents reporting Hawaiian ancestry, 32,145 were living in California.

Source: U.S. Bureau of the Census, 1980 Census of Population, Ancestry of the Population by State: 1980, Supplementary Report PC80-S1-10 (April 1983).

Table 29.-- NATIVITY, PLACE OF BIRTH, AND CITIZENSHIP: 1980 AND 1970

Nativity, place of birth, and citizenship	State totals		Islands: 1980	
	1980	1970	Oahu	Other islands
NATIVITY AND PLACE OF BIRTH				
Total persons	964,691	768,559	762,565	202,126
Native 1/	827,675	692,964	649,354	178,321
Born in Hawaii	557,990	455,060	420,120	137,870
Born in different State	248,752	178,531	209,901	38,851
Born abroad, at sea, etc. 2/	20,933	17,286	19,333	1,600
Foreign born	137,016	75,595	113,211	23,805
Europe and U.S.S.R.	9,100	5,595	7,457	1,643
China	6,112	4,663	5,875	237
Japan	22,265	19,685	18,718	3,547
Korea	9,060	2,063	8,774	286
Philippines	58,510	33,175	43,880	14,630
Vietnam	3,606	8,208	3,531	75
All other countries	22,267		19,719	2,548
Country not reported	6,096	2,206	5,257	839
CITIZENSHIP 3/				
Foreign born	137,016	73,578	113,211	23,805
Naturalized citizen	62,287	30,566	51,314	10,973
Not a citizen	74,729	43,012	61,897	12,832

1/ 1970 figure includes persons not reporting place of birth, not shown separately.

2/ Includes persons born in Puerto Rico, American Samoa, or other outlying areas of the United States, and persons born at sea or in a foreign country having at least one American parent.

3/ 1970 data based on a subsample; foreign born total thus differs somewhat from corresponding figure shown elsewhere in this table.

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), tables 61, 63, and 118; 1970 Census of Population, Detailed Characteristics, Hawaii, PC(1)-D13 (July 1972), tables 141 and 144.

Table 30.-- CITIZENSHIP AND YEAR OF IMMIGRATION FOR FOREIGN-BORN PERSONS, BY COUNTRY OF BIRTH: 1980

Country of birth	All foreign-born persons	Citizenship: Naturalized citizens	Citizenship: Not a citizen	Median year of immigration 1/
Total	137,016	62,287	74,729	1970
Europe and U.S.S.R.	9,100	5,682	3,418	1961
Asia	108,183	48,216	59,967	1970
China	6,112	3,792	2,320	1967
Hong Kong	2,492	1,033	1,459	1973
Japan	22,265	10,231	12,034	1957
Korea	9,060	3,550	5,510	1974
Philippines	58,510	27,054	31,456	1970
Vietnam	3,606	673	2,933	1975
Other Asia	6,138	1,883	4,255	1974
North and South America	5,777	2,306	3,471	1967
Canada	3,268	1,112	2,156	1966
Other N. and S. America ...	2,509	1,194	1,315	1970
Africa	493	144	349	1972
All other countries 2/	7,367	2,582	4,785	1973
Country not reported	6,096	3,357	2,739	1969

1/ Calculated by interpolation from data by decades; see Data Book 1984, table 32.

2/ Tonga, Western Samoa, etc.

Source: U.S. Bureau of the Census, 1980 Census of Population, Detailed Population Characteristics, Hawaii, PC80-1-D13 (October 1983), table 195.

Table 31.-- PLACE OF BIRTH AND PLACE OF RESIDENCE FIVE YEARS EARLIER: 1940 TO 1980

Subject	1940	1950	1960	1970	1980
PLACE OF BIRTH					
All Hawaii residents	423,330	499,794	632,772	768,559	964,691
Hawaii	278,506	355,574	421,168	455,060	557,990
Other States	54,224	65,640	128,992	178,531	248,752
U.S. outlying area, etc. 1/	2,209	1,960	4,962	17,286	20,933
U.S., State not reported 2/	...	...	8,750	42,087	...
Foreign country	88,391	76,616	68,900	75,595	137,016
Mainland residents born in Hawaii	23,723	51,955	115,070	179,735	259,363
Net lifetime interstate migration	+30,501	+13,685	+13,922	-1,204	-10,611
RESIDENCE FIVE YEARS EARLIER					
Hawaii residents 5 years and older	383,245	435,135	551,781	697,840	888,056
Hawaii	(NA)	365,440	432,147	495,726	685,882
Other States	(NA)	61,320	94,768	125,732	149,919
Abroad			19,402	33,518	52,255
Moved, residence not reported 3/	...	8,375	5,464	42,864	...
Mainland residents in Hawaii 5 years earlier	(NA)	(NA)	84,740	112,443	173,741
Net 5-year interstate migration ..	(NA)	(NA)	+10,028	+13,289	-23,822

NA Not available.

1/ Persons born in U.S. territories or possessions, and persons born at sea or in a foreign country having at least one American parent. For this table, the Philippines, a U.S. commonwealth until 1946, has been included with foreign countries.

2/ Shown separately in 1960 and 1970 but imputed in other years.

3/ Shown separately in 1950, 1960 and 1970 but imputed in 1980.

Source: Hawaii State Department of Planning and Economic Development, Lifetime and Recent Migration to and from Hawaii, 1980 (Statistical Report 178, September 4, 1985), table 1.

Table 32.-- PLACE OF BIRTH AND LENGTH OF RESIDENCE IN HAWAII, BY MILITARY STATUS: 1983

[Excludes persons in institutions, military barracks, Kalawao or Niihau. Based on a sample survey of 15,250 persons]

Place of birth and length of residence	All groups	Armed forces	Military dependents	Other civilians
Total	985,722	41,502	73,400	870,820
PLACE OF BIRTH				
Native born	848,821	37,734	62,273	748,814
Hawaii	609,588	2,433	10,567	596,588
Mainland U.S.	229,621	34,602	50,457	144,562
American Samoa	5,951	-	95	5,856
Other terr. or poss.	3,661	699	1,154	1,808
Foreign born	131,959	3,486	10,734	117,739
China 1/	14,594	-	181	14,414
Indo-China 2/	6,586	-	612	5,974
Japan	22,386	85	1,430	20,872
Korea	10,324	412	1,540	8,372
Philippines	57,816	1,563	3,487	52,765
Other foreign	20,253	1,426	3,484	15,342
Not reported	4,941	281	393	4,267
LENGTH OF RESIDENCE IN HAWAII				
Less than 1 year	55,608	7,666	18,017	29,926
1 to 4 years	174,578	27,140	44,995	102,442
5 to 9 years	120,081	3,361	6,216	110,504
10 to 19 years	202,788	1,237	2,280	199,271
20 years or more	423,809	1,900	1,563	420,346
Not reported	8,857	198	328	8,331
Median years	16.8	2.9	2.6	19.5

1/ Includes Taiwan.

2/ Cambodia, Laos, or Vietnam.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 33.-- LANGUAGE SPOKEN AT HOME BY PERSONS FIVE YEARS OLD AND OVER, BY ABILITY TO SPEAK ENGLISH: 1980

[Unless otherwise specified, data are based on a 15.7-percent sample]

Language	Total	Speak English -- Very well	Well	Not well	Not at all
Persons 5 and over	887,707	...	...	...	...
Speak only English at home	658,752	...	...	...	...
Speak a language other than English at home	228,955	110,338	74,946	37,797	5,874
Chinese 1/	20,066	9,057	6,096	4,014	899
Japanese 1/	80,230	39,640	24,705	13,475	2,410
Korean	9,231	2,707	3,317	2,749	458
Philippine language 1/	66,655	26,550	26,311	12,533	1,261
Spanish	11,933	8,752	2,460	697	24
All others	40,840	23,632	12,057	4,329	822
Hawaiian 2/	9,060	6,580	2,200	240	40
Samoan 2/	11,020	5,000	4,320	1,640	60
Tongan 2/	1,180	360	560	260	-
Other Polynesian 2/	480	280	120	80	-

1/ For statistics on individual Chinese, Japanese, and Philippine languages or dialects, see Data Book 1984, tables 38 and 39.

2/ Based on the 5-percent Public Use Microdata Sample.

Source: U.S. Bureau of the Census, 1980 Census of Population, Detailed Population Characteristics, Hawaii, PC80-1-D13 (October 1983), table 197, and Census of Population and Housing, 1980, Public Use Microdata Sample A-5 Percent (Hawaii), special tabulation by Hawaii State Data Center.

Table 34.-- GENERAL POPULATION CHARACTERISTICS, BY COUNTIES: 1980

Subject	State total	City and Co. of Honolulu	Other counties: Hawaii	Kalawao	Kauai	Maui
RESIDENT POPULATION						
Total persons	964,691	762,565	92,053	144	39,082	70,847
Percent:						
Change 1970-80	25.3	20.9	45.0	-16.3	31.3	54.1
Under 18 years	28.6	28.1	30.6	0	30.5	29.5
18 to 64 years	63.5	64.6	59.2	74.3	58.4	60.5
65 years and over	7.9	7.3	10.2	25.7	11.1	9.9
Median age	28.3	28.0	29.4	58.1	29.8	29.6
Fertility ratio 1/	307	295	370	0	369	328
15 years and over - Percent now married, including separated:						
Male	56.3	55.7	59.2	51.7	59.9	58.2
Female	58.3	57.8	60.6	54.4	62.3	59.1
In group quarters:						
Total	39,599	36,700	1,617	40	403	839
Percent of total persons	4.1	4.8	1.8	27.8	1.0	1.2
HOUSEHOLDS AND FAMILIES						
Households	294,052	230,214	29,237	71	12,020	22,510
Percent change, 1970-80 .	44.8	39.7	69.4	(NA)	45.1	76.1
Persons per household ...	3.15	3.15	3.09	1.46	3.22	3.11
Families	226,035	176,916	22,784	30	9,475	16,830
Persons per family	3.61	3.62	3.51	2.00	3.62	3.59

1/ Children under 5 years per 1,000 women 15 to 49 years.

Source: U.S. Bureau of the Census, Census of Population: 1980, General Population Characteristics, Hawaii, PC80-1-B13 (1982), tables 14 , 21, 47, and 49.

Table 35.-- POPULATION CHARACTERISTICS, BY MILITARY STATUS: 1980

Subject	All groups	Armed Forces	Military depend-ents 1/	Other civilians
Number	964,691	58,443	61,974	844,274
Race (percent):				
White	34.4	73.7	67.2	29.3
Black	1.8	13.3	7.5	0.6
American Indian, Eskimo, Aleut	0.3	0.9	0.4	0.3
Asian and Pacific Islander	61.2	8.1	20.8	67.9
Other	2.2	3.9	4.0	2.0
Spanish origin (percent)	7.4	7.1	8.9	7.3
Males per 100 females	105.4	1,224.9	48.3	99.3
Median age (years)	28.4	24.9	14.3	29.7
Population per household	3.14	3.29		3.12
Percent in group quarters	4.1	41.1	6.8	1.8
Percent of persons 15 and over married:				
Male	55.7	52.6	21.3	56.7
Female	57.3	44.4	88.9	55.0
Children ever born per 1,000 women 15-44	1,219	460	1,499	1,201
Place of birth (percent):				
Hawaii	57.8	4.2	17.1	64.5
Different State	25.8	87.2	64.2	18.7
Foreign country	14.2	6.1	12.0	14.9
Residence in 1975 (percent):				
Same house as 1980	49.3	3.6	7.2	55.3
Different State	16.9	79.7	65.6	9.2
Abroad	5.9	9.7	14.3	5.1
Percent of persons 25 and over high school graduates	73.8	95.5	84.6	72.2
Percent of persons 16 and over in labor force	68.3	100.0	44.6	66.5
Percent of civilian labor force unemployed	4.7	...	12.2	4.5
Percent of employed persons in managerial and professional specialty occupations	23.5	...	19.4	23.6
Median income in 1979 (dollars):				
Persons	7,325	8,123	3,273	7,532
Families	22,648	14,055	...	24,234
Unrelated individuals	7,154	6,608	...	7,791

1/ Military dependents are defined as civilians in families in which either the householder or the householder's spouse is in the Armed Forces.

Source: Hawaii State Department of Planning and Economic Development, Population Characteristics of Hawaii by Military Status, 1980 (Statistical Report 163, September 30, 1983), tables 1 and 2.

Table 36.-- HOUSEHOLD TYPE AND RELATIONSHIP: 1980

Household type and relationship	State total	Oahu	Other islands
Total persons	964,691	762,565	202,126
In households	925,092	725,865	199,227
Householder	294,052	230,214	63,838
Family householder: Male	190,426	148,549	41,877
Female	35,609	28,367	7,242
Nonfamily householder: Male	37,333	28,632	8,701
Female	30,684	24,666	6,018
Spouse	185,698	145,333	40,365
Child	330,281	260,999	69,282
Brother or sister	11,115	8,989	2,126
Parent	11,493	9,231	2,262
Other relative	50,361	38,890	11,471
Nonrelatives	42,092	32,209	9,883
In group quarters	39,599	36,700	2,899
Inmate of institution	5,785	4,565	1,220
Other	33,814	32,135	1,679
Persons 75 years and over living alone	5,075	3,560	1,515
Persons per household	3.15	3.15	3.12
Persons per family	3.61	3.62	3.56
Persons under 18 years	275,583	214,563	61,020
Householder or spouse	387	295	92
Own child	243,671	190,289	53,382
In married-couple family	204,455	159,866	44,589
With female householder, no husband present	32,392	25,584	6,858
With male householder, no wife present	6,824	4,889	1,935
Other relatives	25,918	19,832	6,086
Nonrelatives	3,985	2,941	1,044
Inmate of institution	387	349	38
Other, in group quarters	1,235	857	378
Persons 65 years and over	76,150	55,368	20,782
Family householder: Male	25,453	17,831	7,622
Female	3,959	3,024	935
Spouse	13,763	9,755	4,008
Other relatives	14,015	10,945	3,070
Nonrelatives	1,887	1,396	491
Nonfamily householder: Male	4,670	3,046	1,624
Female	8,705	6,548	2,157
Inmate of institution	2,961	2,116	845
Other, in group quarters	737	707	30

Source: U.S. Bureau of the Census, Census of Population: 1980, General Population Characteristics, Hawaii, PC80-1-B13 (1982), table 21.

Table 37.-- FAMILY TYPE BY PRESENCE OF OWN CHILDREN: 1980

Presence of own children	All families	Married couple families	Female householder no husband present
Total	226,035	185,698	29,422
With own children under 18 years	132,087	101,644	17,410
With own children under 6 years only	32,604	27,528	4,131
With own children under 6 and 6 to 17 years	25,070	21,883	2,779
Number of own children under 18 years	243,671	204,455	32,392
Number of own children under 6 years	79,619	68,656	9,230

Source: U.S. Bureau of the Census, Census of Population: 1980, General Population Characteristics, Hawaii, PC80-1-B13 (1982), table 21.

Table 38.-- HOUSEHOLDS AND FAMILIES, BY COUNTIES: 1983

County	Households	Families	Population in--		Population per--	
			Households	Families	Household	Family
State total	313,787	258,316	985,722	907,759	3.14	3.51
Honolulu	240,452	199,756	760,834	704,151	3.16	3.53
Hawaii	34,945	27,092	102,385	91,902	2.93	3.39
Kauai	13,230	10,687	43,194	39,188	3.26	3.67
Maui	25,159	20,782	79,310	72,518	3.15	3.49

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 39.-- MARRIED COUPLES, UNMARRIED COUPLES, AND SUBFAMILIES: 1960 TO 1980

Subject	1960	1970	1980
Married couples	120,192	154,678	198,398
Married couple families 1/	113,164	147,326	188,933
Married couple subfamilies 2/ ...	7,028	7,352	9,465
Percent	5.8	4.8	4.8
Unmarried couples	(NA)	(NA)	9,963
No persons under 15 years	(NA)	(NA)	7,529
One or more persons under 15 years	(NA)	(NA)	2,434
Subfamilies 2/	9,151	10,111	13,319
Married couple subfamilies	7,028	7,352	9,465
Mother-child subfamilies	1,731	2,288	3,132
Other subfamilies	392	471	722

NA Not available.

1/ Based on a sample; data may therefore differ somewhat from comparable data in table 37.

2/ A subfamily is a married couple (husband and wife enumerated as members of the same household) with or without children, or one parent with one or more never married children under 18 years of age, living in a household and related to either the householder or householder's spouse. The number or percentage of subfamilies is sometimes treated as a measure of the "doubling up" of households.

Source: U.S. Bureau of the Census, 1960 Census of Population, Detailed Characteristics, Hawaii, PC(1)-13D (1962), table 108; 1970 Census of Population, Detailed Characteristics, Hawaii, PC(1)-D13 (1972), table 155; 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (1983), table 64 and p. B-2; 1980 Census of Population, Detailed Population Characteristics, Hawaii, PC80-1-D13 (1983), table 208.

Table 40.-- MARRIED COUPLES, BY RACE OF PARTNERS: 1980

[Based on self-identification or race of mother. For 1970 statistics, see Data Book 1973, table 18]

Race of wife	Race of husband										Percent same, by race of --	
	All husbands	White	Black	Japanese	Chinese	Filipino	Korean	Hawaiian	Samoan	Other races	Husband	Wife
All wives .	188,933	68,715	3,344	53,025	11,919	23,892	3,033	17,576	1,178	5,681	74.9	74.9
White	63,416	51,889	452	2,359	1,056	2,125	266	3,876	174	1,219	75.5	81.8
Black	2,294	126	2,111	12	13	-	-	16	-	16	63.1	92.0
Japanese	57,195	4,939	167	46,401	1,915	1,174	536	1,563	35	465	87.5	81.1
Chinese	12,490	1,594	43	1,546	7,714	372	185	876	19	141	64.7	61.8
Filipino	23,196	2,888	172	748	209	17,727	94	1,004	17	337	74.2	76.4
Korean	4,105	1,127	36	552	184	128	1,838	141	-	99	60.6	44.8
Hawaiian	18,641	4,351	171	1,164	669	1,842	103	9,698	185	458	55.2	52.0
Samoan	1,640	128	10	15	12	56	-	54	1,309	56	74.9	79.8
Other races	5,956	1,673	182	228	147	468	11	348	9	2,890	(NA)	(NA)

NA Not available
Source: U.S. Bureau of the Census, printout.

Table 41.-- MARITAL STATUS, BY SEX: 1980

Marital status	Male	Female
Persons 15 years and over	378,665	360,251
Single	137,448	94,160
Now married, except separated	208,968	204,446
15 to 24 years	14,245	20,190
25 to 34 years	52,447	57,853
35 to 44 years	43,177	41,992
45 to 64 years	71,007	68,766
65 years and over	28,092	15,645
Separated	4,354	5,639
Widowed	7,198	29,220
Divorced	20,697	26,786

Source: U.S. Bureau of the Census, Census of Population: 1980, General Population Characteristics, Hawaii, PC80-1-B13 (1982), table 21.

Table 42.-- MALES PER 100 FEMALES, BY AGE AND MARITAL STATUS: 1980

Age	Total population	Single, widowed, or divorced	Never married
All ages 1/	105.4	110.4	146.7
Under 15 years	106.4	...	...
15 years and over	105.1	110.4	146.7
15 to 24 years	120.7	136.9	139.1
25 to 44 years	103.7	126.7	166.0
45 to 64 years	94.0	66.3	152.2
65 years and over ..	101.0	44.3	167.2

1/ These ratios, based on sample statistics, differ somewhat from the full-count data cited in the present report, table 2, and Data Book 1984, tables 2 and 49. These tables also contain sex ratios by marital status for earlier census years, 1831 to 1970.

Source: U.S. Bureau of the Census, 1980 Census of Population, Detailed Population Characteristics, Hawaii, PC80-1-D13 (1983), table 205.

Table 43.-- CHURCHES, CLERGY, AND CHURCH MEMBERSHIP, BY DENOMINATIONS: 1982

Denomination 1/	Churches	Clergy	Members
Buddhist:			
Honpa Hongwanji	36	40	21,500
Kegonshu Todaiji 2/	1	2	30,000
Others 3/	52+	68+	14,030+
Christian:			
Greek Orthodox (Eastern) 4/	1	1	200
Protestant:			
Assembly of God	(NA)	(NA)	7,000
Church of Jesus Christ of Latter-Day Saints	87	(5/)	31,027
Episcopal	40	85	10,541
Jehovah Witnesses	59	59	4,730
Lutheran	21	25	4,604
Seventh-day Adventists	21	29	4,147
Southern Baptist	60	65	11,340
United Church of Christ	113	129	17,485
United Methodist Church	31	44	6,242
Other Protestant 6/	100+	249+	10,647+
Roman Catholic	64	168	209,000
Other Christian 7/	3+	4+	3,255+
Indian or Hindu derivation 8/	23+	28+	1,880+
Jewish 4/, 9/	1+	2+	442
Muslim	1	-	500
New religious movements (primarily Japanese):			
Tenrikyo	72	300	4,500
Others 10/	20+	28+	7,785+
Shinto:			
Daijingu Temple of Hawaii 2/	(NA)	(NA)	7,500
Kotohira Jinsha Mission 2/	(NA)	(NA)	7,500
Others 11/	(NA)	(NA)	(NA)
Other religious faiths 12/	31+	(NA)	6,306+

Footnotes and source on next page.

Table 43.-- CHURCHES, CLERGY, AND CHURCH MEMBERSHIP, BY DENOMINATIONS: 1982 -- Con.

NA Not available.

1/ Shown separately for denominations with 4,000 or more members, and selected other denominations. For a complete listing, see source.

2/ Membership figure refers to number receiving healing, blessing, or special amulet.

3/ 19 denominations, of which 17 reported data.

4/ Membership figure refers to families rather than individuals.

5/ Lay leaders.

6/ 19 denominations, of which 12 reported number of churches and clergy and 11 reported membership.

7/ 4 denominations (Christian Science, Religious Science, Society of Friends, and Unity), of which 3 reported data.

8/ 9 denominations, of which 8 reported data.

9/ 2 denominations, of which 1 reported data.

10/ 6 denominations, of which 5 reported data.

11/ 3 denominations, of which none reported data.

12/ 4 denominations (Baha'i, Scientology, Unification Church, and Unitarian), of which 3 reported data.

Source: Survey by Department of Religion, University of Hawaii, reported in Geography Department, University of Hawaii, Atlas of Hawaii (1983).

Table 44.-- NUMBER OF CHURCHES, BY COUNTIES: 1984 AND 1985

[Based on number of tax-exempt parcels. As of January 1]

Year	State total	Honolulu	Maui	Hawaii	Kauai
1984	1,309	710	197	270	132
1985	1,329	730	197	270	132

Source: City and County of Honolulu, Real Property Tax Valuations, Tax Rates & Exemptions, State of Hawaii (annual).

Table 45.-- COMPONENTS OF CHANGE IN THE RESIDENT POPULATION, BY MILITARY STATUS: 1970 TO 1980 AND 1980 TO 1984

Period and component	All groups	Armed forces	Civilian population			
			Military dependents	Not military dependents		
				Number	Annual average	Percent distrib.
1970 TO 1980 1/						
Net change	+194,778	+1,911	+2,165	+190,702	+19,070	100.0
Natural increase	118,654	-447	36,233	82,868	8,287	43.5
Live births	161,831	-	37,234	124,597	12,460	...
Deaths	43,177	447	1,001	41,729	4,173	...
Net mil. separations 2/	-	-1,815	-	+1,815	+181	1.0
Net migration 3/	+76,124	+4,173	-34,068	+106,019	+10,602	55.6
1980 TO 1984 4/						
Net change	+74,000	+300	+3,100	+70,700	+16,600	100.0
Natural increase	57,100	-300	15,900	41,600	9,800	58.8
Live births	79,100	-	16,200	62,800	14,800	...
Deaths	21,900	300	400	21,200	5,000	...
Net mil. separations 2/	...	...	...	...	...	...
Net migration 3/	+16,900	+600	-12,800	+29,100	+6,800	41.2

1/ April 1, 1970 to March 31, 1980.

2/ Separations less inductions for armed forces. Included with net migration after 1980.

3/ Includes error of closure.

4/ April 1, 1980 to June 30, 1984. Provisional.

Source: Hawaii State Department of Planning and Economic Development, The Population of Hawaii, 1970-1984 (Statistical Report 173, February 2, 1985), table 7.

Table 46.-- SPECIFIED COMPONENTS OF POPULATION CHANGE: FIRST SETTLEMENT TO 1983

[In thousands. These estimates, which are entirely speculative before 1832 and based on incomplete information for 1832-1950, were prepared in response to a query regarding the all-time cumulative population of Hawaii]

Period	Births and in-migrants	Live births	Civilian in-migrants
500-1778 1/	2,186	2,161	25
1778-1900	607	459	148
1900-1983	2,381	1,046	1,335
500-1983	5,174	3,666	1,508

1/ Assumes initial settlement by 100 persons arriving in A.D. 500; 25 in-migrants annually for 1,000 years; a constant rate of growth (0.63 percent annually), to a population of 300,000 in 1778; and a crude birth rate of 45 per 1,000 throughout the period. Six variants on these basic assumptions produce birth totals ranging from 1,517,000 to 9,104,000.

Source: Robert C. Schmitt and Lynn Y. S. Zane, How Many People Have Ever Lived in Hawaii? (unpublished paper filed in DPED Library, August 3, 1977), as updated to December 31, 1983 from birth tabulations by Hawaii State Department of Health and migration data from the Hawaii Health Surveillance Program.

Table 47.-- INTENDED RESIDENTS ARRIVING IN HAWAII FROM THE MAINLAND UNITED STATES: 1983 AND 1984

Calendar year	Number arriving, by military status				Persons per party	Median age (years)
	Total	Military personnel	Military dependents	Other civilians		
1983	21,720	7,353	8,562	5,805	1.83	24.3
1984	27,050	10,410	12,150	4,490	1.88	23.9

Source: Hawaii State Department of Planning and Economic Development, Hawaii's In-Migrants, 1984 (Statistical Report 174, July 2, 1985), tables 1 and 2.

Table 48.--MIGRATION OF OLD-AGE AND SURVIVORS INSURANCE BENEFICIARIES, AGE 65 AND OVER, AND FROM HAWAII: 1962 TO 1982

[Excludes migration between Hawaii and foreign countries]

Year ended June 30 1/	Net migration	Migrated to Hawaii		Migrated from Hawaii but returned during same year 2/	Migrated from Hawaii	
		From other States	From U.S. possessions		To other States	To U.S. possessions
1962	+14	132	(NA)	2	118	(NA)
1965 3/...	-46	179	(NA)	38	22	(NA)
1967	+265	553	(NA)	78	288	(NA)
1968	+210	575	6	100	369	2
1969	+173	584	4	136	407	8
1970	223	548	7	108	328	4
1972	-110	1,439	10	138	1,556	3
1973	+66	671	7	268	602	10
1975	+108	674	14	187	579	1
1976	+304	785	18	120	493	6
1977	+136	810	18	134	685	7
1979	+355	995	22	159	658	4
1980	+171	803	12	133	634	10
1982	+128	1,466	37	294	1,348	27

NA Not available.

1/ Available only for years specified.

2/ Between Hawaii and other States only.

3/ Not adjusted for processing errors which considerably understated migration to Hawaii and somewhat understated migration from Hawaii.

Source: Data from U.S. Department of Health and Human Services, Social Security Administration, cited in the Hawaii State Department of Planning and Economic Development, Hawaii's In-Migrants, 1983 (Statistical Report 170, October 17, 1984), tables 20 and 21.

Table 49.-- IMMIGRANTS ADMITTED, BY PORT OF ENTRY: 1970 TO 1985

[Years ended June 30 through 1976 and September 30 thereafter. Data refer to immigrants admitted to the United States, reporting Hawaii as their State of intended permanent residence]

Year	All immigrants admitted 1/	Admitted through Honolulu 2/	Year	All immigrants admitted 1/	Admitted through Honolulu 2/
1970 3/	9,013	5,499	1978	9,053	5,870
1971	6,055	4,841	1979	8,944	6,882
1972	6,765	4,800	1980	(NA)	5,682
1973	6,881	4,632	1981	(NA)	6,422
1974	6,549	4,784	1982	8,557	6,890
1975	7,012	4,711	1983	7,118	5,238
1976	7,789	5,393	1984	8,981	5,476
1976 4/	1,882	1,309	1985	(NA)	5,599
1977	7,825	5,375			

NA Not available.

1/ Through any port of entry. Totals include non-immigrant arrivals who changed their status after entry.

2/ Totals exclude persons admitted through ports other Honolulu and also non-immigrant arrivals who changed their status after entry.

3/ Because of a change in tabulation procedures in 1970, officials have noted the possibility of some double-counting in the data for this year.

4/ July through September.

Source: All-port admissions from U.S. Immigration and Naturalization Service, Annual Report for 1970-1977 and records; admissions through Honolulu from INS Honolulu office, monthly tabulations.

Table 50.-- IMMIGRANTS ADMITTED, BY COUNTRIES OF BIRTH: 1982 TO 1984

[Years ended September 30. Data refer to immigrants admitted to the United States, reporting Hawaii as their State of intended permanent residence, and include non-immigrant arrivals who changed their status after entry]

Country of birth	1982	1983	1984
All countries	8,557	7,118	8,981
Canada	84	109	97
China and Taiwan	650	676	825
Japan	(OC)	269	223
Korea	1,007	883	948
Philippines	4,748	4,070	4,662
Vietnam	597	139	795
Other countries	1,471	972	1,431

OC Included with "other countries."

Source: U.S. Immigration and Naturalization Service, data provided April 25, 1985.

Table 51.-- SOUTHEAST ASIAN REFUGEE ARRIVALS: 1980 TO 1983

Fiscal year ending September 30	Number
1980	2,385
1981	1,422
1982	642
1983	333

Source: Data from U.S. Department of Health and Human Services, Office of Refugee Resettlement, cited in Statistical Abstract of the United States for 1984 (p. 94) and 1985 (p. 88).

Table 52.-- PERSONS NATURALIZED, BY COUNTRIES OF FORMER ALLEGIANCE: 1980 TO 1983

[Years ended September 30]

Year	All countries	China and Taiwan	Korea	Philippines	United Kingdom	All other
1980	3,473	278	606	1,992	80	517
1981	3,946	317	730	2,014	105	780
1982	2,750	176	520	1,489	66	499
1983	6,668	534	1,032	3,693	301	1,108

Source: U.S. Immigration and Naturalization Service, records.

Table 53.-- RESIDENCE IN 1975 BY MILITARY STATUS AND COLLEGE ATTENDANCE: 1980

Age in 1980, military status, and college attendance	Total	In different State in 1975		Abroad in 1975	
		Number	Percent	Number	Percent
Persons 5 years and over	888,056	149,919	16.9	52,255	5.9
In armed forces in 1980	58,093	46,306	79.7	5,648	9.7
Military dependents in 1980 .	48,134	31,569	65.6	6,885	14.3
All others	781,829	72,044	9.2	39,722	5.1
Persons 21 years and over	630,727	105,823	16.8	36,188	5.7
In armed forces in 1975	28,884	16,254	56.3	4,975	17.2
Attending college in 1975 ...	56,666	16,846	29.7	3,478	6.1
Persons 16 years and over	722,633	126,799	17.5	41,530	5.7
In armed forces in 1980	58,093	46,306	79.7	5,648	9.7
Attending college in 1980 ...	55,349	10,524	19.0	5,343	9.7

Source: U.S. Bureau of the Census, 1980 Census of Population, Detailed Population Characteristics, Hawaii, PC80-1-D13 (October 1983), table 200; Hawaii State Department of Planning and Economic Development, Population Characteristics of Hawaii by Military Status, 1980 (Statistical Report 163, September 30, 1983), table 4.

Table 54.-- CHARACTERISTICS OF THE CIVILIAN NON-COLLEGE POPULATION FIVE YEARS AND OVER, BY RESIDENCE IN 1975: 1980

[Excludes members of the armed forces in 1975 and/or 1980, their dependents in 1980, and persons attending college in 1975 and/or 1980]

Subject	Hawaii residents in 1980, by residence in 1975					Mainland residents in 1980, Hawaii in 1975
			Other places			
	All places	Hawaii	Total	Other States	Abroad 1/	
Number	697,800	606,520	91,280	57,520	33,760	81,400
Born in Hawaii (percent)	63.2	71.1	10.3	13.3	5.2	17.9
Males per 100 females	94.9	95.6	90.5	91.7	88.4	79.6
Age: Median (years)	34.1	35.1	29.0	29.5	27.6	26.5
65 years and over (percent)	10.8	11.5	5.7	5.6	5.9	2.5
Asian or Pacific Islander (percent)	69.1	73.4	40.8	17.7	80.0	19.7
Persons per household	2.90	2.88	3.01	2.56	4.29	3.39
High school graduates 2/ (percent)	68.9	67.6	78.5	89.6	56.7	87.1
College, 4 or more years 2/	74,720	60,640	14,080	11,000	3,080	10,280
Percent 2/	16.5	15.3	25.7	30.4	16.7	23.0
Unemployed 3/ (percent)	4.4	3.8	8.4	8.9	7.5	9.1
Managerial and professional specialty workers 4/	74,880	64,000	10,880	8,560	2,320	8,280
Percent 4/	22.1	21.6	25.1	29.8	15.8	22.1
Median household income (dollars)	21,871	22,716	15,953	16,518	14,318	15,854
Persons below poverty level (percent)	10.0	8.6	19.0	16.5	23.2	13.6

1/ U.S. territories and possessions or foreign countries.
2/ Persons 25 years and over.
3/ Based on civilian labor force.
4/ Based on employed civilians 16 years and over.

Source: Hawaii State Department of Planning and Economic Development, Lifetime and Recent Migration to and from Hawaii, 1980 (Statistical Report 178, September 4, 1985), table 15.

Table 55.-- IN-MIGRATION, TOTAL AND CIVILIAN, BY ORIGIN: 1974 TO 1984

[Hawaii residents reporting different state or country of residence 1 year prior to survey. Excludes persons in institutions or military barracks, in Kalawao, or on Niihau]

Military status and year surveyed	Number, 1 year old and over			Percent of surveyed population 1/		
	All in-migrants	From U.S. Mainland	From other countries 2/	All in-migrants	From U.S. Mainland	From other countries 2/
Total:						
1974	43,233	34,007	9,226	5.3	4.2	1.1
1975	43,955	34,468	9,487	5.2	4.1	1.1
1976	42,977	33,611	9,366	5.0	3.9	1.1
1977	50,403	41,310	9,093	5.9	4.8	1.1
1978	49,295	39,970	9,325	5.7	4.6	1.1
1979	42,690	33,646	9,044	4.9	3.9	1.0
1980	37,312	30,082	7,230	4.0	3.2	0.8
1981	44,529	34,754	9,775	4.9	3.8	1.1
1982	46,342	38,683	7,659	4.8	4.0	0.8
1983	50,303	42,037	8,266	5.1	4.3	0.8
1984 3/ ..	48,341	42,533	5,808	4.9	4.3	0.6
Civilian: 4/						
1974	19,740	13,402	6,338	2.7	1.8	0.9
1975	20,557	13,886	6,671	2.8	1.9	0.9
1976	27,042	20,176	6,866	3.5	2.6	0.9
1977	25,477	19,555	5,922	3.4	2.6	0.8
1978	26,041	19,820	6,221	3.4	2.6	0.8
1979	22,191	15,278	6,913	2.8	1.9	0.9
1980	18,471	13,255	5,216	2.2	1.6	0.6
1981	23,756	16,272	7,484	2.9	2.0	0.9
1982	25,460	20,762	4,698	3.0	2.4	0.5
1983	22,908	17,199	5,709	2.6	2.0	0.7
1984 3/ ..	23,735	20,050	3,685	2.7	2.3	0.4

1/ Base includes persons under 1 and those not reporting residence one year earlier.

2/ Includes U.S. territories and possessions.

3/ Persons in households living on military bases were omitted from the 1984 survey, although included in other years. For purposes of this table, such persons were assumed to have the same response distribution as members of military households living in the civilian community.

4/ Excludes military dependents.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulations.

Table 56.-- RESIDENCE ONE YEAR EARLIER, BY MILITARY STATUS: 1983 AND 1984

[Excludes persons under one year old and residents of military barracks, institutions, Kalawao, and Niihau. Based on a sample survey of 14,994 persons 1 year old and over in 1983 and 17,206 persons 1 year old and over in 1984]

Place of residence one year earlier	All groups	Armed forces	Military dependents	Other civilians
1983				
Persons 1 year and over	969,133	41,502	70,508	857,123
Same house	822,408	24,331	46,358	751,719
Different house, same island	79,168	6,256	4,740	68,172
Different island	6,025	110	172	5,743
Different state	42,037	8,324	16,514	17,199
U.S. territory or possession	470	-	-	470
Different country	7,796	1,000	1,557	5,239
Previous residence not reported .	11,229	1,481	1,167	8,581
Migrants 1/	50,303	9,324	18,071	22,908
Percent of number reporting ...	5.3	23.3	26.1	2.7
1984 2/				
Population 1 and over	981,541	37,489	61,039	883,013
Same house	831,929	22,245	36,022	773,662
Different house, same island	86,223	6,946	6,757	72,520
Different island	5,945	93	377	5,475
Different state	42,533	6,313	16,170	20,050
U.S. territory or possession	54	-	-	54
Different country	5,754	973	1,150	3,631
Previous residence not reported .	9,103	919	563	7,621
Migrants 1/	48,341	7,286	17,320	23,735
Percent of number reporting ...	5.0	20.0	28.6	2.7

1/ From different state, territory, or country.

2/ Persons in households living on military bases were omitted from the 1984 survey, although included in other years. For purposes of this table, such persons were assumed to have the same response distribution as members of military households living in the civilian community.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 57.-- LIKELIHOOD OF OUT-MIGRATION, TOTAL AND CIVILIAN: 1980 TO 1984

[Based on the response to the question, "How likely is it that this person will be living some place other than Hawaii one year from today?" The sample excluded persons living in institutions or barracks, in Kalawao, or on Niihau]

Military status and year surveyed	Cumulative number			Cumulative percent 1/		
	Some possibility 2/	Good chance 3/	Almost certain	Some possibility 2/	Good chance 3/	Almost certain
Total:						
1980	55,989	35,521	30,740	6.1	3.9	3.3
1981	55,159	39,431	34,857	5.9	4.2	3.7
1982	56,298	40,169	32,190	5.9	4.2	3.4
1983	55,019	37,697	30,661	5.7	3.9	3.2
1984 4/	56,401	44,237	35,995	5.7	4.5	3.6
Civilian: 5/						
1980	32,216	15,375	12,102	3.9	1.9	1.5
1981	26,388	14,265	11,614	3.1	1.7	1.4
1982	31,664	17,467	13,087	3.7	2.0	1.5
1983	29,476	16,876	10,827	3.4	2.0	1.3
1984 4/	27,109	16,590	11,911	3.1	1.9	1.3

1/ Based on number reporting likelihood.

2/ Reporting either "Some possibility of living elsewhere," "A good chance of living elsewhere," or "Almost certain to be living elsewhere."

3/ Reporting either "A good chance of living elsewhere" or "Almost certain to be living elsewhere."

4/ Persons in households living on military bases were omitted from the 1984 survey, although included in other years. For purposes of this table, such persons were assumed to have the same response distribution as members of military households living in the civilian community.

5/ Excluding members of the armed forces and their dependents.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program.

Table 58.-- LIKELIHOOD OF OUT-MIGRATION, BY MILITARY STATUS: 1983 AND 1984

[Based on response to question, "How likely is it that this person will be living some place other than Hawaii one year from today?" asked of samples of 15,250 persons in 1983 and 17,501 persons in 1984. Excludes persons living in institutions or barracks, in Kalawao, or on Niihau]

Likelihood of out-migration	All groups	Armed forces	Military dependents	Other civilians
1983				
Total	985,722	41,502	73,400	870,820
Almost certain to be living in Hawaii	916,641	32,088	54,714	829,839
Some possibility of living elsewhere	17,322	1,495	3,227	12,600
A good chance of living elsewhere ...	7,036	279	707	6,049
Almost certain to be living elsewhere	30,661	6,163	13,671	10,827
Not reported	14,062	1,477	1,081	11,505
1984 1/				
Total	1,003,320	37,489	67,083	898,748
Almost certain to be living in Hawaii	933,526	23,091	50,708	859,727
Some possibility of living elsewhere	12,164	965	680	10,519
A good chance of living elsewhere ...	8,242	2,951	1,870	3,421
Almost certain to be living elsewhere	35,995	9,563	13,263	13,169
Not reported	13,393	919	563	11,911

1/ Persons in households living on military bases were omitted from the 1984 survey, although included in other years. For purposes of this table, such persons were assumed to have the same response distribution as members of military households living in the civilian community.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Section 2

VITAL STATISTICS AND HEALTH

This section presents data on births, deaths, marriages, divorces, diseases and accidents, nutrition, substance abuse, height and weight, hospitals, dental care, and health personnel.

Vital indexes generally reflect the high health standards of Hawaii. Expectation of life at birth in 1980 was 75.04 years for males and 81.45 years for females. There were 5,942 deaths in 1984, or 5.7 per 1,000 resident population. Deaths under one year of age per 1,000 live births numbered 10.9 in 1984. Diseases of the heart have accounted for almost a third of all deaths in recent years; cancer, for almost one-fourth. Live births in 1984 numbered 18,756, or 18.1 per 1,000 resident population. The total fertility rate for civilians fell from 3,360 per 1,000 women in 1960 to 2,461 in 1970 and 1,871 in 1980. Over 98 percent of all babies were born in hospitals in 1984, and more than one-fifth were born to military couples. One out of six births was to an unmarried woman. There were 6,906 fetal deaths in 1984, including 5,277 elective abortions. Marriages numbered 14,982 in 1984, with about [illegible]3 percent accounted for by nonresidents. Divorces reached a 1984 total of 4,769. The State had 24 acute care hospitals (with 2,896 beds), 32 long-term care facilities (with 2,648 beds), 10 specialty care facilities (with 967 beds) and 288 care homes (with 1,631 beds) in 1983. There were 1,966 physicians and surgeons, 767 dentists, 6,783 professional nurses, and 445 pharmacists licensed and living in Hawaii as of January 1985. Acute conditions per 100 persons numbered 209 in 1983, with respiratory conditions the most common complaint (at 154 cases per 100 persons). Among chronic conditions reported in the 1983 survey data, the most frequently mentioned were hypertension without heart involvement (7.3 per 100 persons), impairments of the back or spine (5.4), and hay fever (5.2). The most common communicable disease reported to authorities in 1984 were scarlet fever, with 2,973 cases, and gonorrhea, with 2,664. State mental health facilities served 9,724 patients in fiscal 1984, but the number of in-patients at the end of the year was only 337. Dental health was only fair: according to a 1979 survey, 275,000 residents had not visited a dentist within the previous year, and 176,000 reported one or more dental problems, chiefly cavities. Among persons 12 years old and over in 1979, 55 percent had used alcohol in the preceding month, 33 percent had smoked cigarettes, 14 percent had used marijuana, and 5 percent had used cocaine. The average adult male was 67.5 inches tall and weighed 159.5 lbs.; the average adult female was 62.6 inches and 127.9 lbs.

The major sources for data on vital statistics and health are the annual statistical reports of the Hawaii State Department of Health. Long-term trends are traced in Historical Statistics of Hawaii, Section 2. Sections 2 and 4 of the Statistical Abstract of the United States: 1985 contain similar data for the nation as a whole.

Table 59.-- BIRTHS AND DEATHS: 1970 TO 1984

Calendar year	Resident births 1/	Resident deaths 1/	Rates per 1,000 resident population 2/		Rates per 1,000 live births 3/		
			Births	Deaths	Illegitimate births	Fetal deaths 4/	Infant deaths 5/
1970 ...	16,361	3,971	21.2	5.1	95.8	20.6	19.1
1971 ...	15,780	4,130	19.7	5.2	88.4	23.5	16.0
1972 ...	15,364	4,245	18.5	5.1	93.0	22.8	17.5
1973 ...	15,328	4,356	18.0	5.1	104.0	16.4	13.7
1974 ...	15,472	4,286	17.8	4.9	108.8	16.3	16.0
1975 ...	15,689	4,272	17.7	4.8	123.2	18.9	13.7
1976 ...	16,292	4,349	18.0	4.8	125.0	20.8	11.2
1977 ...	16,874	4,349	18.4	4.7	143.3	21.6	12.3
1978 ...	16,717	4,508	17.9	4.8	160.1	13.5	12.0
1979 ...	17,513	4,791	18.4	5.0	163.5	13.1	10.9
1980 ...	18,129	4,903	18.7	5.1	175.6	15.3	10.8
1981 ...	18,174	4,927	18.5	5.0	181.8	13.1	10.5
1982 ...	18,675	5,123	18.7	5.1	186.3	12.7	8.9
1983 ...	19,090	5,409	18.7	5.3	197.8	11.5	10.0
1984 ...	18,667	5,571	18.0	5.4	191.8	10.0	10.9

1/ Events occurring in Hawaii. Data include births to military couples and deaths of armed forces and their dependents, but exclude nonresident births and deaths, as well as resident births and deaths occurring out of State.

2/ Based on estimates in DPED, Statistical Report 172 and Statistical Memorandum 85-3.

3/ Place of occurrence basis.

4/ 20 weeks gestation and over. Includes elective abortions.

5/ Under 1 year of age.

Source: Hawaii State Department of Health, Statistical Report (annual), and records.

Table 60.-- BIRTHS AND BIRTH RATES, BY MILITARY STATUS: 1974 TO 1984

[Place of occurrence basis]

Subject and year	All groups	Civilians			Armed forces and dependents
		All civilians	Military dependents	Other civilians	
Live births:					
1974	15,528	15,528	3,774	11,754	3,774
1975	15,766	15,766	3,821	11,945	3,821
1976	16,409	16,409	3,803	12,606	3,803
1977	16,983	16,983	3,771	13,212	3,771
1978	16,762	16,762	3,656	13,106	3,656
1979	17,568	17,568	3,797	13,771	3,797
1980	18,216	18,216	3,750	14,466	3,750
1981	18,230	18,230	3,502	14,728	3,502
1982	18,735	18,735	4,007	14,728	4,007
1983	19,164	19,164	4,093	15,071	4,093
1984	18,756	18,756	3,976	14,780	3,976
Birth rates: 1/					
1974	16.8	17.9	55.2	14.7	30.0
1975	16.7	17.8	60.0	14.5	31.2
1976	16.9	18.0	56.8	14.9	30.5
1977	17.1	18.1	58.0	15.2	31.0
1978	16.5	17.5	59.8	14.6	30.6
1979	16.8	17.8	58.9	15.0	31.0
1980	17.3	18.3	58.5	15.5	30.7
1981	17.1	18.1	54.5	15.6	29.0
1982	17.2	18.1	60.1	15.2	33.0
1983	17.2	18.1	61.8	15.2	33.7
1984	16.4	17.3	59.3	14.5	32.0

1/ Per 1,000 de facto population in each group, based on estimates in DPED, Statistical Report 172, Statistical Memorandum 85-3, and records (for 1984).

Source: Hawaii State Department of Health, Research and Statistics Office, records.

Table 61.-- DEATHS AND DEATH RATES, BY MILITARY STATUS: 1974 TO 1984

[Place of occurrence basis]

Subject and year	All groups	Armed forces	Civilians 1/ All civilians	Civilians 1/ Military dependents	Civilians 1/ Other civilians	Armed forces and dependents
Deaths:						
1974	4,598	49	4,549	108	4,441	157
1975	4,572	83	4,489	98	4,391	181
1976	4,717	67	4,650	99	4,551	166
1977	4,724	76	4,648	93	4,555	169
1978	4,852	80	4,772	85	4,687	165
1979	5,137	85	5,052	86	4,966	171
1980	5,204	69	5,135	82	5,053	151
1981	5,269	73	5,196	83	5,113	156
1982	5,495	74	5,421	86	5,335	160
1983	5,725	97	5,628	85	5,543	182
1984	5,942	73	5,869	86	5,783	159
Death rates: 2/						
1974	5.0	0.9	5.3	1.6	5.6	1.2
1975	4.8	1.4	5.1	1.5	5.3	1.5
1976	4.9	1.2	5.1	1.5	5.4	1.3
1977	4.8	1.3	5.0	1.4	5.2	1.4
1978	4.8	1.4	5.0	1.4	5.2	1.4
1979	4.9	1.5	5.1	1.3	5.4	1.4
1980	4.9	1.2	5.1	1.3	5.4	1.2
1981	4.9	1.3	5.2	1.3	5.4	1.3
1982	5.1	1.3	5.2	1.3	5.5	1.3
1983	5.1	1.8	5.3	1.3	5.6	1.5
1984	5.2	1.3	5.4	1.3	5.7	1.3

1/ Death rates for military dependents based on 1970 and 1980 age and sex composition of military dependents and 1970 and 1980 age-sex-specific death rates for all civilians. Deaths of civilians other than military dependents calculated as residual.

2/ Per 1,000 de facto population in each group, based on estimates in DPED, Statistical Report 172, Statistical Memorandum 85-3, and records (for 1984).

Source: Hawaii State Department of Health, Research and Statistics Office, records.

Table 62.-- FERTILITY RATES, BY MILITARY STATUS: 1960, 1970, AND 1980

[Military dependents are included in the military category]

Type of rate and military status	1960	1970	1980
Crude birth rate, all groups 1/	27.2	21.4	18.8
Civilian	22.9	19.1	16.5
Military	48.8	35.1	35.0
General fertility rate, all groups 2/	127.8	96.1	78.7
Civilian	106.2	84.8	68.9
Military	250.5	169.5	147.5
Total fertility rate, all groups 3/	3,886.5	2,728.5	2,084.0
Civilian	3,360.5	2,461.5	1,871.0
Military	6,480.5	4,275.0	3,496.0
Gross reproduction rate, all groups 4/ ...	1,884.0	1,318.0	1,006.5
Civilian	1,628.0	1,189.5	903.5
Military	3,140.0	2,065.5	1,688.0

1/ The annual number of live births per 1,000 resident population.

2/ The annual number of live births per 1,000 women of childbearing age.

3/ The average number of children to whom 1,000 women would give birth according to a set of fertility rates providing the women survive the childbearing years.

4/ The average number of girls to whom 1,000 women would give birth according to a set of fertility rates providing the women survive the childbearing years.

Source: Calculations by Eleanor C. Nordyke, Community Population Specialist, East-West Population Institute, based on vital statistics from the Hawaii State Department of Health and special tabulations of decennial census data by military status.

Table 63.-- CHARACTERISTICS OF RESIDENT BIRTHS: 1981 TO 1984

[Excludes births to Hawaii residents occurring out of state]

Subject	1981	1982	1983	1984
Number of resident births	18,174	18,675	19,090	18,667
Rate per 1,000 population	18.5	18.8	18.7	18.0
Percent on Oahu	76.7	77.1	77.1	77.0
Percent attended by M.D. or O.D. in hospital 1/	98.4	98.0	98.1	98.3
Males per 100 females	105.8	105.8	107.4	107.1
Median weight of single births (grams)	3,283	3,278	3,292	3,293
Percent low birth weight (under 2,500 grams)	6.1	6.6	6.4	7.3
Percent single births under 40 weeks gestation	49.7	50.2	49.7	51.7
Percent plural	1.7	1.8	1.6	1.8
Percent with 1 or more congenital malformations	0.9	0.8	1.2	1.1
Percent illegitimate	18.2	18.6	19.8	19.2
Percent with prenatal visit in first three months	76.9	74.2	73.6	75.4
Percent first child born to mother	33.0	31.9	32.3	32.4
Percent first child born alive to mother	43.2	42.4	43.1	42.6
Median age of mothers (years)	26.1	26.1	25	25
Median age of known fathers (years)	28.8	28.8	29	29
Number of deliveries 2/	26,452	26,468	26,709	25,573

1/ Place of occurrence basis.
2/ Includes live births, standard fetal deaths, and elective abortions.
Source: Hawaii State Department of Health, Statistical Report (annual).

Table 64.-- RESIDENT BIRTHS, MIXED AND UNMIXED, BY MILITARY STATUS OF FATHER: 1984

[Based on data for 18 specified races]

Military status of father	Total births	Unmixed	Mixed 1/			Not certain 2/
			Total	Part Haw'n	No Haw'n blood	
All groups	18,667	8,584	8,965	5,596	3,369	1,118
Military	3,976	3,043	931	228	703	2
Civilian 3/	14,691	5,541	8,034	5,368	2,666	1,116
PERCENT DISTRIBUTION						
All groups	100.0	46.0	48.0	30.0	18.0	6.0
Military	100.0	76.5	23.4	5.7	17.7	0.1
Civilian 3/	100.0	37.7	54.7	36.5	18.1	7.6

1/ Includes all Part Hawaiian births, including those in which both parents were Part Hawaiian.

2/ One or both parents of unspecified race (unless one was Part Hawaiian) or both parents classified as "other."

3/ Includes births in which father's military status was not reported.

Source: Hawaii State Department of Health, Research and Statistics Office, data provided July 1, 1985.

Table 65.-- CHILDREN EVER BORN, BY MARITAL STATUS AND AGE OF MOTHERS: 1980

[For earlier years, 1950-1970, see Data Book 1984, table 69]

Subject	15 years and over	15 to 24 years	25 to 34 years	35 to 44 years	45 years and over
All women	360,707	87,008	88,168	55,285	130,246
Childless	129,611	69,521	32,274	9,411	18,405
Mothers	231,096	17,487	55,894	45,874	111,841
Children ever born 1/	684,779	26,273	117,508	137,037	403,961
Per 1,000 women	1,898	302	1,333	2,479	3,102
Single (never married) women .	92,704	64,345	17,816	4,273	6,270
Childless	85,754	60,483	15,701	3,750	5,820
Mothers	6,950	3,862	2,115	523	450
Children ever born 1/	10,142	4,882	3,268	992	1,000
Per 1,000 single women .	109	76	183	232	159
Women ever married	268,003	22,663	70,352	51,012	123,976
Childless	43,857	9,038	16,573	5,661	12,585
Mothers	224,146	13,625	53,779	45,351	111,391
Children ever born 1/	674,637	21,391	114,240	136,045	402,961
Per 1,000 women ever married	2,517	944	1,624	2,667	3,250

1/ Excluding stillbirths.

Source: U.S. Bureau of the Census, 1980 Census of Population, Detailed Population Characteristics, Hawaii (October 1983), table 211.

Table 66.-- DELIVERIES, ILLEGITIMATE BIRTHS, AND ELECTIVE ABORTIONS: 1960 TO 1980

[Place of occurrence basis]

Subject	1960	1970	1980
Deliveries	18,219	20,753	26,454
Live births	17,193	16,467	18,216
Fetal deaths, including abortions	1,026	4,286	8,238
Illegitimate births	881	1,577	3,198
Per 1,000 live births	51.2	95.8	175.6
Per 1,000 unmarried women 14 to 44	18.7	21.9	27.2
Elective abortions 1/	3	2,741	6,462
Per 1,000 deliveries	0.2	132.1	244.3
Per 1,000 live births	0.2	166.5	354.7
Per 1,000 women 14 to 44	0.0	15.3	27.2

1/ Legal restrictions on elective abortions were removed by S.L.H. 1970, Act 1, effective March 11, 1970.

Source: U.S. Bureau of the Census, U.S. Census of Population, 1960, 1970, and 1980, Hawaii State Department of Health, Annual Report, Statistical Supplement, 1960, 1970, and 1980.

Table 67.-- MOST COMMON NAMES ON BIRTH CERTIFICATES, BY SEX: 1984

[A total of 5,164 first names, including variant spellings, was reported for the 18,756 babies born in Hawaii in 1984. For leading names in 1909-1914, 1950, and 1983, see Data Book 1984, table 72]

Rank	Boys' names		Girls' names	
	Name	Number	Name	Number
1	Michael	254	Jennifer	205
2	Christopher	253	Ashley	180
3	Matthew	189	Jessica	161
4	Joshua	187	Nicole	131
5	Justin	163	Tiffany	95
6	Ryan	161	Heather	79
7	David	159	Michelle	76
8	James	144	Melissa	74
9	Daniel	142	Crystal	73
10	Brandon	141	Amanda	71

Source: Hawaii State Department of Health, Research and Statistics Office, printout dated April 24, 1985.

Table 68.-- MOST COMMON SURNAMES IN THE OAHU TELEPHONE DIRECTORY: 1975 AND 1985

Rank	1985		1975	
	Name	Columns	Name	Columns
1	Lee	20.0	Lee	18.0
2	Wong	16.75	Wong	16.5
3	Young	11.5	Young	11.5
4	Chang	10.5	Chang	10.5
5	Chun (tie)	9.75	Chun	10.0
6	Smith (tie)	9.75	Smith	9.5
7	Kim (tie)	9.75	Nakamura	9.0
8	Ching	8.5	Ching	8.5
9	Lum	7.67	Lum	8.0
10	Nakamura	7.33	Yamamoto; Tanaka (tie)	6.5

Source: Tabulations by Bob Krauss reported in Honolulu Advertiser, November 22, 1975 p. A-3, and January 16, 1985, p. A-3.

Table 69.-- CHARACTERISTICS OF RESIDENT DEATHS: 1981 TO 1984

[Excludes deaths of Hawaii residents occurring out of state]

Subject	1981	1982	1983	1984
Number of resident deaths	4,927	5,123	5,409	5,571
Rate per 1,000 population	5.1	5.2	5.3	5.4
Percent on Oahu	74.2	73.6	75.2	74.0
Males per 100 females	155.5	143.6	143.1	146.7
Median age (years)	70.0	69.4	70.6	71.1
Percent married	46.2	47.2	48.4	47.4
Number of deaths under 1 year	178	158	175	186
Per 1,000 live births	9.8	8.5	9.2	10.0
Fetal deaths 1/	8,278	7,793	7,619	6,906
Per 1,000 deliveries	313	294	285	270
Fetal deaths, 20 or more weeks gestation 2/	238	262	219	178
Per 1,000 live births	13.1	14.0	11.4	9.5
Standard fetal deaths 3/	1,661	1,618	1,627	1,629
Elective abortions	6,617	6,175	5,992	5,277
Per 1,000 live births	364	331	313.9	282.7

1/ Includes elective abortions.

2/ Place of occurrence basis. Includes elective abortions if 20 weeks or more.

3/ Excludes elective abortions.

Source: Hawaii State Department of Health, Statistical Report (annual).

Table 70.-- CAUSE OF DEATH: 1963, 1973, AND 1983

[Resident deaths. Data for 1983, however, exclude deaths of Hawaii residents out of State]

Cause of death 1/	Number, 1983	Percent distribution			Rate per 100,000 population		
		1983	1973	1963	1983	1973	1963
All causes	5,409	100.0	100.0	100.0	528.6	513.3	535.9
Diseases of the heart ..	1,738	32.1	32.2	32.8	169.9	165.2	175.9
Malignant neoplasms	1,291	23.9	20.6	17.3	126.2	105.9	92.6
Cerebrovascular diseases	428	7.9	10.4	8.4	41.8	53.5	44.7
All accidents	265	4.9	6.9	6.4	25.9	35.5	34.0
Influenza and pneumonia	193	3.6	3.7	3.2	18.9	19.0	17.3
Diabetes mellitus	113	2.1	2.6	2.4	11.0	13.5	12.8
Suicide	95	1.8	2.0	2.4	9.3	10.3	12.8
Other circulatory diseases	83	1.5	1.6	1.5	8.1	8.0	8.1
Perinatal condition	71	1.3	2.8	7.7	6.9	14.5	41.5
Congenital anomalies ...	67	1.2	1.4	2.2	6.5	7.2	12.0
Bronchitis, emphysema, asthma	62	1.2	1.5	1.7	6.0	7.4	8.9
Liver disease and cirrhosis	60	1.1	1.5	1.3	5.9	7.9	7.2
Homicide	51	0.9	0.9	0.4	5.0	4.5	1.9
All other causes	892	16.5	11.9	12.3	87.2	60.9	66.2

1/ The leading causes of death in 1983, listed according to rank.

Source: Hawaii State Department of Health, *Statistical Report, 1983*, p. 24.

Table 71.-- DEATHS OCCURRING IN HAWAII, BY METHOD OF DISPOSITION: 1980 TO 1984

Method	1980	1981	1982	1983	1984
All methods	5,204	5,269	5,495	5,725	5,942
Burial	2,343	2,284	2,324	2,513	2,517
Cremation	2,241	2,342	2,515	2,588	2,808
Removal	567	613	613	594	587
Entombment	44	23	33	25	26
Educational purpose	-	-	-	-	-
Other	1	-	-	3	-
Unknown	8	7	10	2	4

Source: Hawaii State Department of Health, Statistical Report (annual).

Table 72.-- CATASTROPHIC MORTALITY: 1977 TO 1985

[Includes all accidents, natural disasters, and other events causing five or more deaths. Excludes out-of-state deaths to Hawaii residents, such as the Chicago airplane crash which killed 273 persons, including 10 residents of Hawaii, on May 25, 1979. Complete through October 1, 1985]

Date	Place	Kind of disaster	Deaths
1977: April 13 1/	At sea off Waikiki	Airplane crash	5
1978: Dec. 9 (?)	At sea off West Hawaii	Ship disappearance	10
1979: Feb. 11 (?)	At sea out of Hana	Boat disappearance	5
Nov. 24	Near Wahiawa	2-car auto crash	5
1980: May 18	Molokai	Helicopter crash	7
1981: Dec. 5	Pearl Harbor	Airplane crash	11
1982: July 24	Near Wahiawa	3-car auto crash	5
1983: June 16	Honopu, Kauai	Airplane crash	14
1985: Jan. 15	540 mi. N. of Honolulu	Helicopter crash	7

1/ For earlier events, see Robert C. Schmitt, "Catastrophic Mortality in Hawaii," The Hawaiian Journal of History, Vol. 3, 1969, pp. 66-86, and "Catastrophic Mortality in Hawaii, 1969-1976," unpublished paper filed in DPED Library, 1976.

Source: DPED file of newspaper accounts.

Table 73.-- EXPECTATION OF LIFE AT BIRTH: PRE-CONTACT TIMES TO 1980

[Average expectation of life (e_0) in years]

Date	Both sexes 1/	Male	Female
Before 1778 2/	30	(NA)	(NA)
1847 3/	35-36	(NA)	(NA)
1878-1879 4/	21.88	(NA)	(NA)
1883-1886 4/	31.95	(NA)	(NA)
1889-1892 4/	33.65	(NA)	(NA)
1894-1898 4/	36.89	(NA)	(NA)
1910	43.96	44.04	43.83
1920	45.69	45.64	45.75
1930	53.95	52.70	55.86
1940	62.00	59.92	64.86
1950	69.53	67.77	71.67
1960	72.42	70.39	74.75
1970	74.20	72.12	76.44
1980	78.02	75.04	81.45

NA Not available.

1/ Corresponding values for the entire United States were as follows: 1920, 54.1; 1930, 59.7; 1940, 62.9; 1950, 68.2; 1960, 69.7; 1970, 70.8; and 1980, 73.7. See Statistical Abstract of the United States: 1985, p. 69.

2/ Based on skeletal remains found at Mokapu, Oahu.

3/ Data for northern and northeastern Kauai.

4/ Data for Honolulu.

Source: Robert W. Gardner and Robert C. Schmitt, "Ninety-Seven Years of Mortality in Hawaii," Hawaii Medical Journal, October 1978, pp. 297-302; Hawaii State Department of Health, Life Tables by Ethnic Group for Hawaii, 1920-1970, by Chai Bin Park, Robert W. Gardner, and Eleanor C. Nordyke (R&S Report, No. 26, June 1979), and Life Tables by Ethnic Group for Hawaii, 1980, by Robert W. Gardner (R&S Report, No. 47, March 1984).

Table 74.-- SELECTED LIFE TABLE VALUES: 1980

Exact age in years (x)	Average expectation of life in years (e_x)			Number surviving to specified age per 100,000 born alive (l_x)		
	Both sexes	Male	Female	Both sexes	Male	Female
0 1/	78.02	75.04	81.45	100,000	100,000	100,000
1	77.81	74.90	81.15	99,001	98,870	99,147
5	73.97	71.08	77.27	98,796	98,617	98,997
15	64.12	61.26	67.40	98,579	98,358	98,824
25	54.66	51.99	57.50	97,674	97,095	98,350
35	45.14	42.61	48.00	96,741	95,810	97,791
45	35.81	33.40	38.53	95,125	93,806	96,582
55	27.12	25.05	29.50	91,142	88,554	93,788
65	19.19	17.50	21.11	83,153	78,637	87,879
75	12.23	11.02	13.40	67,037	60,056	75,343
85	7.20	6.54	7.68	39,284	31,099	49,188
95	3.97	3.70	4.12	9,639	5,492	14,464

1/ For the entire United States, expectation of life at birth in 1980 was 73.7 years for males and females combined, 70.0 for males, and 77.5 for females; see Statistical Abstract of the United States: 1985, p. 69.

Source: Hawaii State Department of Health, Life Tables by Ethnic Group for Hawaii, 1980, by Robert W. Gardner (R & S Report, No. 47, March 1984), p. 9.

Table 75.-- ACUTE CONDITIONS: 1983

Condition	Incidence of condition per year	Conditions per 100 persons per year
All acute conditions	2,056,074	208.6
Infective parasitic diseases	99,727	10.1
Respiratory condition	1,518,636	154.1
Digestive system condition	38,579	3.9
Injuries	171,575	17.4
All other acute conditions	227,557	23.1

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, records.

Table 76.-- PERSONS ON THE STATE BLIND REGISTER, BY COUNTIES: 1983 AND 1984

[For earlier years, 1929-1982, see Data Book 1984, table 81, p. 102]

Year	State total	City and Co. of Honolulu	County of Hawaii	County of Kauai	County of Maui
1983: June 30	1,734	1,458	104	49	123
1984: June 30	1,856	1,523	122	58	153

Source: Hawaii State Department of Social Services and Housing, Services for the Blind Branch, data provided February 12, 1985.

Table 77.-- CHRONIC CONDITIONS: 1983

Selected chronic conditions	Prevalence of condition	Conditions per 1,000 persons
Heart condition	22,121	22.4
Impairment of back or spine	53,193	54.0
Hypertension without heart involvement	72,377	73.4
Arthritis/rheumatism	30,313	30.8
Hearing impairment	30,192	30.6
Asthma with or without hayfever	33,613	34.1
Diabetes	20,425	20.7
Mental and nervous condition	11,262	11.4
Visual impairment	11,373	11.5
Malignant neoplasms	7,816	7.9
Chronic and allergic skin conditions	32,869	33.3
Chronic sinusitis	24,042	24.4
Hayfever without asthma	51,481	52.2
Stomach ulcer	6,210	6.3
Bronchitis/emphysema	11,227	11.4
Benign and unspecified neoplasms	4,533	4.6
Hemorrhoids	11,447	11.6
Thyroid/goiter	2,621	2.7
Varicose veins	8,413	8.5
Gout	8,553	8.7

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, records.

Table 78.-- LIMITATION OF ACTIVITY DUE TO CHRONIC OR ACUTE CONDITIONS: 1983

Type of limitation	Number
Persons with one or more chronic conditions	336,694
No limitation of activity	282,116
Limited, but not in major activity	24,264
Limited in amount or kind of activity	19,832
Unable to carry on major activity	10,482
Restricted days in past 12 months 1/	12,788,125
Per person 2/	13.0
Bed days in past 12 months	4,114,394
Per person 2/	4.2
Work days lost by persons 17 years of age and older in past 12 months	1,411,259
Per employed person 17 years and older 2/	3.5
School days lost by persons 6 to 16 years of age in past 12 months	570,945
Per pupil 6 to 16 years of age 2/	3.3

1/ A restricted activity day is one in which a person had to cut down on his usual activity for all or most of the day.

2/ Base includes persons without chronic or acute conditions or restricted activities.

Source: State Department of Health, Hawaii Health Surveillance Survey Program, special tabulation.

Table 79.-- SPECIFIED COMMUNICABLE DISEASES: 1982 TO 1984

Disease	Cases			Deaths		
	1982	1983	1984	1982	1983	1984
All reportable diseases ..	10,310	11,309	8,512	18	21	29
Acquired Immunodeficiency Syndrome (AIDS)	(NA)	10	16	(NA)	7	4
Chickenpox	820	1,442	834	-	-	-
Gonorrhea	3,706	2,886	2,664	-	-	-
Hansen's Disease	59	46	105	1	-	5
Hepatitis, all types	187	153	130	5	1	6
Influenza	222	494	328	-	1	-
Measles (Rubeola)	6	2	142	-	-	-
Meningitis, all types	281	319	147	5	2	3
Mumps	21	20	22	-	-	-
Rubella	9	1	5	-	-	-
Salmonellosis	499	335	380	1	-	-
Scarlet fever, other strep. ...	3,474	4,814	2,973	-	-	-
Syphilis	191	159	150	-	-	-
Tuberculosis	252	236	218	6	10	11
All others	583	392	398	-	-	-

NA Not available.

Source: Hawaii State Department of Health, Statistical Report, 1984, pp. 116 and 119.

Table 80.-- PERSONS 12 YEARS OLD AND OVER WHO HAD USED SPECIFIED SUBSTANCES IN THE PRECEDING MONTH: 1979

[Based on anonymous questionnaires completed by 3,127 household members on six major islands]

Substance	12 years old and over		12 to 17 years old: percent	18 to 25 years old: percent	26 years old and over: percent
	Number (1,000)	Percent			
Coffee	576	81.5	53.9	74.0	89.0
Cigarettes	235	33.3	15.3	40.0	35.0
Alcohol	389	55.1	27.4	68.2	57.3
Marijuana	102	14.4	17.9	31.0	9.0
Over the counter drugs .	45	6.4	10.1	6.7	5.5
Sedatives	21	3.0	0.9	5.1	3.0
Stimulants	14	1.9	0.9	3.0	2.0
Tranquilizers	44	6.2	1.5	5.5	7.0
Inhalants	9	1.2	2.9	1.2	0.8
Opiates	39	5.5	6.1	5.9	5.5
Hallucinogens	10	1.4	1.8	4.2	0.5
PCP	3	0.4	0.8	1.2	0.1
Cocaine	33	4.7	2.5	13.0	3.0
Heroin	2	0.3	0	1.1	0.2
Stimulants 1/	8	1.1	0.7	3.0	0.7
Sedatives 1/	9	1.2	0.5	3.8	0.7
Tranquilizers 1/	8	1.1	0.7	3.1	0.7
Over the counter 1/	6	0.8	0.3	1.3	0.7
Opiates 1/	5	0.7	1.0	1.5	0.4

1/ Non-medical use.

Source: Hawaii State Department of Health, Mental Health Division, Alcohol and Drug Abuse Branch, Hawaii State Substance Abuse Survey - 1979. (December 1980), tables 8 and 9.

Table 81.-- NUMBER AND BED CAPACITY OF HOSPITALS AND CARE HOMES, BY TYPE OF FACILITY, BY ISLANDS: 1983

[Except for Tripler Army Medical Center, data are for facilities regulated and licensed by the Hospital and Medical Facilities Branch of the Hawaii State Department of Health and recognized by the Hawaii State Health Planning and Development Agency]

Category and island	All facilities 1/	Acute care 2/	Long-term care	Specialty care	Care homes: Residential 3/	Care homes: Family 4/
NUMBER OF FACILITIES						
State total ..	336	24	32	10	16	272
Oahu	274	11	19	7	11	231
Hawaii	24	5	6	-	1	17
Kauai	17	3	3	1	3	11
Maui	17	3	2	1	-	13
Molokai	3	1	1	1	1	-
Lanai	1	1	1	-	-	-
NUMBER OF BEDS						
State total ..	8,142	2,896	2,648	967	549	1,082
Oahu	6,369	2,341	1,742	924	455	907
Hawaii	759	262	402	-	13	82
Kauai	384	128	136	11	67	42
Maui	547	150	338	8	-	51
Molokai	69	9	22	24	14	-
Lanai	14	6	8	-	-	-

1/ Institutions providing more than one kind of care are counted only once.

2/ Includes Tripler Army Medical Center which had a bed capacity of 509 (plus 52 nursery beds).

3/ Five or more beds.

4/ Four or fewer beds.

Source: Hawaii State Department of Health, Statistical Report, 1983, pp. 104, 105, 180, and 181.

Table 82.-- OCCUPANCY CHARACTERISTICS OF ACUTE AND LONG-TERM CARE CIVILIAN HOSPITALS, BY ISLANDS: 1983

[Excludes Tripler Army Medical Center]

Type of facility and island	Admissions	Average daily census	Average length of stay (days)	Average daily percent occupancy
ACUTE CARE				
State total	102,331	1,654.5	5.9	69.3
Oahu	78,459	1,357.1	6.3	76.5
Hawaii	10,455	122.5	4.2	48.2
Kauai	5,597	70.8	4.6	49.5
Maui	7,253	98.2	3.5	67.3
Molokai	500	5.1	3.7	34.0
Lanai	67	0.8	4.2	13.3
LONG-TERM CARE				
State total	2,574	2,519.5	357.3	95.2
Oahu	1,478	1,656.8	409.2	95.4
Hawaii	607	387.8	233.2	94.6
Kauai	178	128.5	263.5	94.5
Maui	282	329.4	426.4	97.5
Molokai	20	11.7	213.7	97.6
Lanai	9	5.3	216.2	66.6

Source: Data by islands from Hawaii State Department of Health, Statistical Report 1983, pp. 105-108; state totals estimated by Hawaii State Department of Planning and Economic Development.

Table 83.-- HANSEN'S DISEASE PATIENTS REGISTERED: 1980 TO 1984

Subject	1980	1981	1982	1983	1984
Patients on register, Dec. 31 ..	474	506	550	578	661
Medically released	474	506	550	578	661
At home	349	385	432	462	555
Kalaupapa	119	115	112	110	101
Hale Mohalu or Leahi	6	6	6	6	5
Net annual increase	16	32	44	28	83
New cases added	34	49	49	41	43
Cases returned to register ...	3	4	11	5	58
Deaths	8	6	4	6	15
Left the State	4	1	12	12	5
Discharged	9	14	-	-	-
Registry correction (net)	-	-	-	-	+2

Source: Hawaii State Department of Health, Statistical Report, 1984, pp. 121-122.

Table 84.-- PATIENTS SERVED BY STATE MENTAL HEALTH FACILITIES: 1979 TO 1984

Year	Patients active, end of period			Admissions		Terminations	Patients served (undup.)
	Total	In-patients	Out-patients	Total	Unduplicated		
1979	6,392	333	6,059	4,564	4,265	5,057	10,713
1980 1/ ...	6,655	431	6,224	5,136	4,779	4,809	10,718
1981	6,642	408	6,213	4,947	4,474	5,062	10,689
1982	6,287	336	5,951	4,885	4,163	5,155	10,312
1983 1/ ...	6,022	303	5,719	4,761	4,112	5,030	9,970
1984 2/ ...	5,692	337	5,355	4,307	3,845	4,887	9,724

1/ Revised from Data Book 1984, table 91.
2/ Year ended June 30.
Source: Hawaii State Department of Health, Statistical Report (annual) and records.

Table 85.-- HAWAII STATE HOSPITAL BEDS AND OCCUPANCY: 1980 TO 1985

[Hawaii State Hospital is the only public psychiatric hospital in Hawaii]

Year	Number of beds, June 30	Admissions 1/		Patients in hospital 2/	
		Total	First	Average 1/	June 30
1980	199	816	321	226	239
1981	220	804	322	214	222
1982	220	990	402	226	221
1983	220	1,070	445	239	243
1984	220	744	276	221	240
1985	220	647	514	220	224

1/ Year ended June 30.
2/ Includes patients on leave and absent without leave.
Source: Hawaii State Hospital, records.

Table 86.-- WAIMANO TRAINING SCHOOL AND HOSPITAL: 1980 TO 1985

[Waimano Training School and Hospital is the State institution for the mentally retarded]

Year	Beds, June 30	Admissions 1/	Patients in residence		Patients on leave, June 30
			Average 2/	June 30	
1980	575	12	437	423	627
1981	575	7	406	397	635
1982	575	6	387	385	621
1983 3/ .	426	10	365	375	614
1984 3/ .	410	2	356	364	603
1985	410	2	354	360	586

1/ Year ended June 30. Excluding returns from community placement.
2/ Year ended June 30.
3/ Revised from Data Book 1984, table 93.
Source: Hawaii State Department of Health, Statistical Report (annual); Waimano Training School and Hospital, records.

Table 87.-- DENTAL CARE, BY AGE GROUP: 1979

[Based on a sample of 4,457 persons surveyed in April-June 1979]

Subject	All ages 1/	Under 20 years	20 to 39 years	40 to 59 years	60 years and over
Population surveyed	867,755	293,667	300,852	175,113	92,666
Months since last visit:					
Less than 6	312,781	111,515	113,509	63,300	22,983
6 to 12	138,438	52,918	52,923	20,147	12,127
Less than 12, unspecified ...	114,922	42,132	32,545	28,031	10,119
Over 12	219,379	34,942	84,555	56,284	42,578
Never	55,394	47,244	3,653	2,290	2,118
Unknown	26,842	4,916	13,667	5,061	2,742
Services received in past 12 months: 2/					
Checkup	23,601	12,394	6,124	4,272	811
X-Ray	344,731	119,090	133,835	65,831	22,428
Cleaning teeth	434,384	160,282	158,072	83,836	28,742
Fillings	291,238	105,669	114,037	49,970	21,217
Fluoride treatment	155,870	97,968	47,498	8,220	2,183
Extractions	66,266	24,683	25,831	10,512	5,161
Root canal treatment	27,081	3,033	12,894	6,633	4,175
Dentures and/or bridges	35,048	376	7,629	14,641	12,323
Crowns and capping	53,243	8,701	22,939	14,214	7,376
Straightening teeth	16,192	11,913	3,130	1,148	-
Treating gum and/or bone	13,016	867	3,918	5,243	2,987
Other	8,128	4,224	1,796	699	1,409
Unknown	17,642	7,135	4,917	4,189	1,056
Dental problems: 2/					
Cavities	85,192	19,904	44,345	14,491	6,451
Toothache	11,132	1,683	4,666	2,808	1,974
Wisdom tooth	22,066	6,109	13,928	1,513	516
Dentures	32,651	1,547	2,644	12,399	16,061
Crooked teeth or bad bite ...	33,595	20,436	9,049	2,726	1,384
Disease of gum and/or bone ..	8,861	452	2,555	4,789	1,040
Other	18,324	5,903	6,918	3,081	2,422
None	636,968	220,371	213,235	135,848	62,908
Unknown	54,917	24,001	18,857	6,063	5,171

1/ Includes 5,456 persons not reporting age.

2/ Some respondents reported two or more categories.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, printout dated January 29, 1981.

Table 88.-- PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS LICENSED IN HAWAII, BY PLACE OF ADDRESS: JANUARY 2, 1985

Place of address	Physicians and surgeons 1/	Dentists	Registered nurses	Pharmacists
Total licensed	3,274	1,019	9,082	703
Hawaii addresses ...	1,966	767	6,783	445
Hawaii	157	68	537	32
Maui	132	42	495	37
Lanai	2	1	12	0
Molokai	7	3	30	3
Oahu	1,601	631	5,440	353
Kauai	67	22	269	20
Niihau	-	-	-	-
Out of State	1,308	252	2,299	258

1/ Permanent licenses only. Does not include interns, residents, or the 23 physicians who provided State government services only.

Source: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, Licensing Branch, data provided February 13, 1985.

Table 89.-- MARRIAGES AND DIVORCES: 1970 TO 1984

[Place of occurrence basis]

Calendar year	Marriages		Divorces and annulments 2/	Rates per 1,000 resident population 3/		Percent of marriages	
	Total	Resident 1/		Resident marriages	Divorces, annulments 2/	Nonresident 4/	Interracial
1970 ...	10,599	7,889	2,589	10.2	3.4	25.6	33.7
1971 ...	9,734	8,104	3,691	10.1	4.6	16.7	38.7
1972 ...	9,750	8,482	3,891	10.2	4.7	13.0	38.6
1973 ...	9,776	8,656	4,170	10.2	4.9	11.5	40.6
1974 ...	9,649	8,500	4,111	9.8	4.7	11.9	40.1
1975 ...	9,673	8,440	4,265	9.5	4.8	12.7	39.6
1976 ...	9,769	8,318	4,712	9.2	5.2	14.9	38.8
1977 ...	10,266	8,427	4,601	9.2	5.0	17.9	37.5
1978 ...	10,736	8,650	4,837	9.3	5.2	19.4	37.9
1979 ...	11,678	9,424	5,055	9.9	5.3	19.3	38.2
1980 ...	11,856	9,442	4,438	9.7	4.6	20.4	37.6
1981 ...	12,218	9,445	4,253	9.6	4.3	22.7	36.1
1982 ...	13,483	10,053	4,233	10.1	4.2	25.4	35.7
1983 ...	14,062	10,216	4,583	10.0	4.5	27.3	35.5
1984 ...	14,982	10,020	4,769	9.6	4.6	33.3	33.4

1/ One or both partners residents of Hawaii.

2/ Final decrees only. An interlocutory decree of six months was abolished July 1, 1971.

3/ Based on estimates in DPED, Statistical Report 172 and Statistical Memorandum 85-3.

4/ Both partners nonresidents of Hawaii.

Source: Hawaii State Department of Health, Statistical Report (annual).

Table 90.-- CHARACTERISTICS OF MARRIAGES AND DIVORCES: 1981 TO 1984

[Place of occurrence basis]

Subject	1981	1982	1983	1984
MARRIAGES				
Number	12,218	13,483	14,062	14,982
Percent on Oahu	70.9	70.5	69.8	66.8
Percent Hawaii residents:				
Both bride and groom	72.5	70.0	67.5	61.7
One partner only	4.8	4.6	5.2	5.2
Neither bride nor groom	22.7	25.4	27.3	33.1
Median age (years):				
Groom	28.3	28.8	29.0	29.7
Bride	26.0	26.6	26.8	27.5
Percent previously married:				
Groom	35.6	36.7	36.6	38.3
Bride	34.8	36.2	36.8	38.8
DIVORCES AND ANNULMENTS				
Number 1/	4,253	4,233	4,583	4,769
Divorces	4,235	4,219	4,573	4,758
Annulments	18	11	10	11
Percent occurring on Oahu	76.0	77.0	76.1	79.2
Percent nonresident:				
Husband	11.7	12.1	12.2	13.0
Wife	12.8	12.4	11.8	12.8
Neither partner	75.6	75.7	76.1	74.2
Median age (years):				
Husband	33.2	33.8	33.4	33.9
Wife	30.6	31.2	30.8	31.3
Percent interracial 2/	40.3	35.7	39.9	41.1
Percent with children under 18 years	54.1	54.0	54.4	54.0
Median years married	6.1	6.3	5.4	6.1

1/ Includes unspecified type of decree.

2/ For these calculations, marriages where both bride and groom are in the "Part Hawaiian" or "Other races" categories are classified as non-interracial.

Source: Hawaii State Department of Health, Statistical Report (annual).

Table 91.-- MARRIAGES OCCURRING IN HAWAII, RESIDENT AND NONRESIDENT, BY RACE MIXTURE AND TYPE OF CEREMONY: 1983 AND 1984

Race mixture and type of ceremony	Total	At least one partner Hawaii resident	Both partners nonresidents
1983			
All marriages	14,062	10,222	3,840
Race of bride and groom:			
Both partners same	8,986	5,528	3,458
Different	4,987	4,608	379
Not reported 1/	89	86	3
Percent different 2/	35.7	45.5	9.9
Type of ceremony:			
Civil	5,258	4,291	967
Religious	8,804	5,931	2,873
Not reported	-	-	-
Percent civil 2/	37.4	42.0	25.2
1984			
All marriages	14,982	10,020	4,962
Race of bride and groom:			
Both partners same	9,897	5,376	4,521
Different	5,085	4,644	441
Not reported 1/	-	-	-
Percent different 2/	33.9	46.3	8.9
Type of ceremony:			
Civil	5,269	4,216	1,053
Religious	9,713	5,804	3,909
Not reported	-	-	-
Percent civil 2/	35.2	42.1	21.2

1/ Both partners "other races" or one or both not reported.

2/ Base excludes not reported.

Source: Hawaii State Department of Health, Research and Statistics Office, special tabulations.

Table 92.-- HEIGHT DISTRIBUTION, BY SEX, AND AVERAGE WEIGHT, BY HEIGHT AND SEX, FOR PERSONS 18 YEARS OLD AND OVER: 1975-1980

[Based on a sample of approximately 48,000 Hawaii residents 18 years old and over. Height and weight values are those reported by respondents; inclusion or exclusion of clothing or shoes not specified. Fractional values of 1/2 and over have been rounded upward]

Height (inches)	Cumulative percent		Average weight (pounds)	
	Male	Female	Male	Female
Total	100.0	100.0	159.5	127.9
Under 54	0.1	0.7	(B)	111.0
54	0.1	0.8	(B)	106.0
55	0.1	1.0	(B)	112.9
56	0.2	1.7	(B)	107.3
57	0.3	2.7	(B)	107.8
58	0.4	5.2	122.7	107.9
59	0.7	11.4	124.2	113.6
60	2.1	24.4	126.7	116.3
61	3.5	34.9	131.7	121.3
62	7.3	51.2	133.6	124.6
63	12.1	63.3	136.1	128.7
64	19.8	74.7	140.8	133.9
65	27.8	82.8	145.1	138.5
66	39.3	89.9	150.0	140.3
67	51.2	94.6	155.8	144.4
68	61.8	97.4	161.6	148.5
69	70.7	98.6	168.4	156.5
70	78.4	99.3	170.7	153.2
71	85.7	99.7	177.7	156.8
72	92.7	99.9	182.4	167.4
73	95.7	99.9	188.7	(B)
74	98.1	100.0	193.9	(B)
75	99.0	100.0	198.9	(B)
76	99.6	100.0	201.8	(B)
77	99.8	100.0	205.9	(B)
78	99.9	100.0	210.8	(B)
79 and over	100.0	100.0	192.2	(B)

B Base figure too small to meet statistical standards for reliability of derived figure.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 93.-- WEIGHT DISTRIBUTION, BY SEX, AND AVERAGE HEIGHT, BY WEIGHT AND SEX, FOR PERSONS 18 YEARS OLD AND OVER: 1975-1980

[Based on a sample of approximately 48,000 Hawaii residents 18 years old and over. Height and weight values are those reported by respondents; inclusion or exclusion of clothing or shoes not specified. Fractional values of 1/2 and over have been rounded upward]

Weight (pounds)	Cumulative percent		Average height (inches)	
	Male	Female	Male	Female
Total	100.0	100.0	67.5	62.6
Under 75	0.0	0.1	(B)	57.8
75 to 99	0.4	7.8	61.4	59.7
100 to 124	7.7	51.2	63.5	61.9
125 to 149	38.3	82.5	65.7	63.4
150 to 174	71.7	93.3	68.0	64.2
175 to 199	90.0	97.7	69.8	64.7
200 to 224	96.8	99.1	70.7	65.0
225 to 249	98.7	99.6	70.9	65.0
250 to 274	99.5	99.9	70.6	65.5
275 to 299	99.8	100.0	71.0	63.9
300 to 324	99.9	100.0	72.1	(B)
325 to 349	99.9	100.0	(B)	(B)
350 and over	100.0	100.0	(B)	(B)

B Base figure too small to meet statistical standards for reliability of derived figure.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 94.-- DAILY FOOD INTAKE OF INDIVIDUALS: WINTER 1978

Food	Average daily intake (grams)	Percent using in a day
Meats, poultry, fish	244	94.7
Milk, milk products (calcium equivalent)	273	69.8
Eggs	28	32.2
Legumes, nuts, seeds	38	25.8
Grain products	281	96.9
Bread, rolls, biscuits	49	70.4
Rice	116	58.7
Fats, oils	13	62.9
Vegetables	160	86.4
Nonalcoholic beverages	491	77.1
Alcoholic beverages	79	12.2
Fruits	169	58.5
Sugar, sweets	18	53.8

Source: U.S. Department of Agriculture, Science and Education Administration, Food and Nutrient Intakes of Individuals in 1 Day in Hawaii, Winter 1978 (Nationwide Food Consumption Survey 1977-78, Preliminary Report No. 5, May 1981), pp. 33-42.

Table 95.-- NUTRITIVE VALUE OF FOOD: WINTER 1978

Nutrient	Average intake per individual in a day		Percent of recommended dietary allowances in a day	Percent of households meeting recommended allowances
	Unit	Amount		
Food energy	Kcal	1,751	81	77
Protein	G	73.8	163	98
Fat	G	75.8	...	...
Carbohydrate	G	188.2	...	...
Calcium	Mg	625	73	50
Iron	Mg	12.6	103	88
Magnesium	Mg	236	79	70
Phosphorus	Mg	1,068	127	96
Vitamin A value	IU	5,429	122	83
Thiamin	Mg	1.23	110	88
Riboflavin	Mg	1.50	116	87
Preformed niacin	Mg	18.3	124	...
Vitamin B_6	Mg	1.44	75	68
Vitamin B_{12}	Mcg	5.11	139	84
Vitamin C	Mg	96	166	96

Source: U.S. Department of Agriculture, Science and Education Adminiatration, Food Consumption and Dietary Levels of Households in Hawaii, Winter 1978 (Nationwide Food Consumption Survey 1977-78, Preliminary Report No. 4, April 1981), p. 19, and Food and Nutrient Intakes of Individuals in 1 Day in Hawaii, Winter 1978 (Nationwide Food Consumption Survey 1977-78, Preliminary Report No. 5, May 1981), pp. 58 and 60.

Section 3

EDUCATION

This section presents statistics on enrollment in public and private schools, colleges and universities; students graduated and degrees awarded; the highest grade of school completed; achievement test results; school facilities, personnel, and expenditures; and libraries.

Enrollment in elementary, intermediate and high schools in 1984-1985 totaled 200,869, slightly more than in the preceding year but well below the all-time high of 215,524 reached in 1971-1972. There were 231 public schools with 8,060 classroom teachers and 163,860 students (81.6 percent of the total). There were also 141 private schools with 2,393 teachers and 37,009 pupils. Students graduating from public and private high schools in 1983-1984 numbered 12,992. Some 52,185 students attended colleges and universities in the State in 1984-1985, including 20,023 on the Manoa Campus of the University of Hawaii, 435 at West Oahu College, 3,237 at UH-Hilo, 20,275 at six community colleges, and 8,215 in four private colleges and universities. Ninety-two percent of the children 5 and 6 years old were in school in 1980 (compared with 87 percent in 1970), and 47 percent in the 18- and 19-year-old group were enrolled (compared with 53 percent a decade earlier). The expenditure per pupil in public schools rose from $1,257 in 1973-1974 to $3,481 in 1983-1984. Among adults, the illiteracy rate dropped from 17.5 percent in 1930 to 1.9 percent in 1970, and by 1980 one-fifth percent of all residents 25 years of age or more could report having completed four or more years of college. The Hawaii State Library System, with 49 locations in all four counties, had 4.7 million books, film reels, phonorecords, and other collections in 1984, with an annual circulation of 5.5 million. The University of Hawaii libraries in the same year counted 2.4 million volumes.

The principal sources of data on education are the U.S. Bureau of the Census, Hawaii State Department of Education, University of Hawaii, and private colleges and universities. Historical Statistics of Hawaii, Section 9, contains Island data back to 1820. Section 5 of the Statistical Abstract of the United States: 1985 presents comparable information for the nation as a whole.

Table 96.-- SCHOOLS, TEACHERS, PUPIL MEMBERSHIP, AND HIGH SCHOOL GRADUATES, FOR PUBLIC AND PRIVATE SYSTEMS: 1974-1975 TO 1984-1985

School year	Schools 1/			Teachers 1/		
	Total	Public	Private	Total	Public 2/	Private 3/
1974-75 ...	345	225	120	9,643	7,711	1,932
1975-76 ...	344	225	119	9,841	7,860	1,981
1976-77 ...	353	227	126	10,115	8,008	2,107
1977-78 ...	356	228	128	9,972	7,891	2,081
1978-79 ...	365	229	136	9,815	7,930	1,885
1979-80 ...	369	229	140	10,125	8,066	2,059
1980-81 ...	371	230	141	10,324	8,113	2,211
1981-82 ...	376	230	146	10,447	8,139	2,308
1982-83 ...	373	233	140	10,302	8,083	2,219
1983-84 ...	374	233	141	10,344	7,997	2,347
1984-85 ...	372	231	141	10,453	8,060	2,393

School year	Enrollment or membership 1/			High school graduates		
	Total	Public 4/	Private 5/	Total	Public	Private
1974-75 ...	211,702	176,844	34,858	13,545	11,283	2,262
1975-76 ...	212,171	176,232	35,939	13,275	11,080	2,195
1976-77 ...	210,736	174,838	35,898	13,823	11,637	2,186
1977-78 ...	208,830	172,649	36,181	13,867	11,464	2,403
1978-79 ...	206,812	170,515	36,297	14,097	11,637	2,460
1979-80 ...	205,580	168,393	37,187	14,013	11,493	2,520
1980-81 ...	202,972	165,094	37,878	14,647	12,088	2,559
1981-82 ...	200,844	162,805	38,039	13,948	11,563	2,385
1982-83 ...	200,129	162,024	38,105	13,248	10,757	2,491
1983-84 ...	200,240	162,241	37,999	12,992	10,454	2,538
1984-85 ...	200,869	163,860	37,009	(NA)	(NA)	(NA)

NA Not available.

1/ September data for all years.

2/ Special schools excluded through 1978-1979 but included beginning 1979-1980.

3/ Includes special schools for all years.

4/ Includes special schools; excludes pre-kindergarten prior to 1980-1981.

5/ Includes special schools and pre-kindergarten for all years.

Source: Hawaii State Department of Education, data supplied February 13, 1985.

Table 97.-- SCHOOLS, TEACHERS, AND PUPIL MEMBERSHIP, SEPTEMBER 13, 1984, AND HIGH SCHOOL GRADUATES, 1983-1984, FOR PUBLIC AND PRIVATE SYSTEMS, BY ISLANDS

[Data include special schools other than University Laboratory Schools]

Island	Number of schools, September 13, 1984			Number of teachers, September 13, 1984		
	Total	Public	Private	Total	Public	Private
State total	372	231	141	10,453	8,060	2,393
Hawaii	46	30	16	1,165	1,001	164
Maui	29	19	10	735	606	129
Lanai	1	1	0	27	27	0
Molokai	6	5	1	84	82	2
Oahu	268	162	106	7,972	5,933	2,039
Kauai	21	13	8	468	409	59
Niihau	1	1	0	2	2	0

Island	Pupil membership, September 13, 1984			High school graduates, 1983-1984 school year		
	Total	Public	Private	Total	Public	Private
State total	200,869	163,860	37,009	12,992	10,454	2,538
Hawaii	22,527	20,515	2,012	1,426	1,283	143
Maui	14,616	12,681	1,935	882	736	146
Lanai	461	461	0	30	30	0
Molokai	1,583	1,571	12	113	113	0
Oahu	152,612	120,499	32,113	9,995	7,748	2,247
Kauai	9,039	8,102	937	545	543	2
Niihau	31	31	0	1	1	0

Source: Hawaii State Department of Education, data supplied February 13, 1985.

Table 98.-- PUPIL MEMBERSHIP, PUBLIC AND PRIVATE, BY GRADES: SEPTEMBER 13, 1984

[Excludes the University Laboratory Schools]

Grade	Total	Public	Private
All grades	200,869	163,860	37,009
Nursery	2,767	325	2,442
Kindergarten	15,980	13,053	2,927
1	15,731	13,026	2,705
2	15,305	12,708	2,597
3	14,553	12,070	2,483
4	13,783	11,495	2,288
5	13,598	11,382	2,216
6	13,437	11,151	2,286
7	13,693	10,803	2,890
8	14,551	11,572	2,979
9	15,945	12,924	3,021
10	15,049	12,199	2,850
11	13,731	11,163	2,568
12	12,465	9,974	2,491
Specials 1/	10,281	10,015	266

1/ Public school figure includes ungraded students in special schools.

Source: Hawaii State Department of Education, data supplied February 14, 1985.

Table 99.-- PRIVATE SCHOOLS, TEACHERS, AND MEMBERSHIP, SEPTEMBER 13, 1984, AND PRIVATE HIGH SCHOOL GRADUATES, 1983-1984, BY CHURCH AFFILIATION

Church affiliation	Schools	Teachers	Membership	High-school graduates
Total	141	2,393	37,009	2,538
Church-affiliated	96	1,468	24,821	1,433
Roman Catholic	39	739	13,838	904
Other church-affiliated	57	729	10,983	529
Non-church-affiliated ...	45	925	12,188	1,105

Source: Hawaii State Department of Education, information provided February 14, 1985.

Table 100.-- FEDERALLY-CONNECTED PUPILS IN PUBLIC SCHOOLS: FALL, 1979 TO 1984

Year	All federally-connected pupils		Military dependents	Others 1/
	Number	Percent of total enrollment		
1979	40,745	24.2	20,951	19,794
1980	37,934	23.1	18,980	18,954
1981	36,193	22.3	18,793	17,400
1982 2/	37,104	23.0	19,502	17,602
1983	38,305	23.6	19,965	18,340
1984 3/	38,927	23.8	20,304	18,623

1/ Includes dependents of civilian employees of armed forces.
2/ Revised from Data Book 1983, table 89.
3/ Preliminary.

Source: Hawaii State Department of Education, data supplied February 13, 1985 and December 18, 1985.

Table 101.-- EXPENDITURES, COST PER PUPIL, AVERAGE SALARIES, AND DAYS OF SCHOOL, FOR PUBLIC ELEMENTARY AND SECONDARY EDUCATION: 1974-1975 TO 1984-1985

Fiscal year	Expenditures (dollars)		Cost per pupil 1/ (dollars)	Average annual salary of teachers (dollars)	Number of days of school
	Current operations	Capital outlay			
1974-1975 ..	232,185,601	24,832,512	1,305.00	13,949	178
1975-1976 ..	268,155,310	31,983,000	1,503.39	15,111	178
1976-1977 ..	298,770,753	38,105,500	1,718.34	16,689	175
1977-1978 ..	322,185,202	23,196,000	1,883.79	17,579	175
1978-1979 ..	333,768,126	20,809,000	1,981.35	18,360	173
1979-1980 2/	360,316,441	30,489,000	2,163.62	19,858	163
1980-1981 ..	402,344,699	30,860,000	2,457.32	21,085	176
1981-1982 ..	432,228,402	17,237,000	2,700.72	22,473	177
1982-1983 3/	497,763,951	23,304,890	3,098.23	21,504	174
1983-1984 ..	509,710,506	11,941,000	3,255.97	25,380	176
1984-1985 ..	526,741,742	13,652,707	3,351.18	25,648	174

1/ Based on average daily membership.

2/ Scheduled school days numbered 177; 14 days were missed because of "blue collar strike."

3/ One day missed due to Hurricane Iwa.

Source: Hawaii State Department of Education, data supplied February 13, 1985 and December 18, 1985.

Table 102.-- ENROLLMENT AT THE UNIVERSITY OF HAWAII, BY CAMPUS: FALL 1975 TO 1985

[Fall enrollment in regular credit programs, including concurrent registrants and early admits]

Year	Total, all campuses	University of Hawaii at Manoa				Univ. of Hawaii at Hilo 2/	West Oahu College 3/
		Total	Under-graduates	Grad-uates	Other 1/		
1975 ..	44,050	21,260	15,671	4,111	1,478	3,526	-
1976 ..	44,326	21,356	15,370	4,284	1,702	3,322	139
1977 ..	43,888	21,106	15,208	4,280	1,618	3,280	201
1978 ..	43,803	21,225	15,148	4,350	1,727	3,053	234
1979 ..	43,375	20,833	14,902	4,258	1,673	3,099	258
1980 ..	43,542	20,319	14,402	4,235	1,682	3,504	247
1981 ..	45,425	20,629	14,487	4,324	1,818	3,478	369
1982 ..	47,527	21,065	14,879	4,328	1,858	3,752	410
1983 ..	46,468	21,112	15,091	4,339	1,682	3,613	433
1984 ..	43,970	20,023	14,234	4,255	1,534	3,237	435
1985 ..	43,369	19,666	13,565	4,283	1,818	3,200	443

Year	Community Colleges 4/						
	Total	Hono-lulu	Kapio-lani	Lee-ward	Wind-ward	Kauai	Maui
1975 ..	19,264	4,017	4,368	6,900	1,153	1,238	1,588
1976 ..	19,509	4,450	4,617	6,450	1,154	1,186	1,652
1977 ..	19,301	4,402	4,494	6,159	1,353	1,245	1,648
1978 ..	19,291	4,386	4,738	5,893	1,415	1,137	1,722
1979 ..	19,185	4,576	4,641	5,540	1,505	1,104	1,819
1980 ..	19,472	4,509	4,978	5,575	1,442	1,082	1,886
1981 ..	20,949	5,211	5,089	6,032	1,489	1,201	1,927
1982 ..	22,300	5,331	5,560	6,261	1,568	1,272	2,308
1983 ..	21,310	5,131	5,284	6,060	1,462	1,190	2,183
1984 ..	20,275	4,554	5,281	5,785	1,366	1,176	2,113
1985 ..	20,060	4,539	5,058	5,667	1,543	1,177	2,076

Footnotes and source follow next table.

Table 103.-- DEGREES, DIPLOMAS, AND CERTIFICATES AWARDED BY THE UNIVERSITY OF HAWAII: 1975 TO 1985

Year ended June 30	University of Hawaii at Manoa					
	Associate	Bachelor	Master	Doctor	First professional 5/	Other 6/
1975	57	3,300	1,110	94	62	213
1976	68	3,160	1,132	116	102	183
1977	58	3,192	1,019	135	113	164
1978	61	3,213	1,007	129	125	157
1979	69	2,899	1,063	122	122	134
1980	46	2,859	969	102	136	124
1981	57	2,701	968	115	152	106
1982	52	2,588	993	111	137	122
1983	52	2,639	938	120	132	120
1984	60	2,698	945	101	131	166
1985	90	2,642	914	138	137	189

Year ended June 30	University of Hawaii at Hilo 2/			West Oahu College: Bachelor 3/	Community Colleges 4/	
	Certificates	Associate degrees	Bachelor degrees		Certificates 7/	Associate degrees
1975	81	179	189	-	352	1,402
1976	83	230	162	-	414	1,559
1977	93	255	196	6	420	1,598
1978	69	280	206	12	456	1,864
1979	92	255	166	22	509	1,964
1980	86	256	160	48	481	1,807
1981	57	261	171	47	483	1,763
1982	74	263	160	46	519	1,882
1983	68	242	193	91	509	2,008
1984	80	239	188	136	473	2,026
1985	67	229	180	77	454	1,875

1/ Includes unclassified, special and no data on student level.

2/ Hilo College, College of Agriculture, and Hawaii Community College.

3/ Opened Spring 1976.

4/ Excludes Hawaii Community College, which is part of the University of Hawaii at Hilo.

5/ Includes Doctor of Jurisprudence (J.D.) and Doctor of Medicine (M.D.).

6/ Certificates in Dental Hygiene and professional diplomas.

7/ Certificates of Achievement.

Source: University of Hawaii, Office of Institutional Research and Analysis, records.

Table 104.-- ENROLLMENT AND EARNED DEGREES AWARDED, FOR PRIVATE COLLEGES AND UNIVERSITIES: 1984 AND 1985

[Excludes extension programs of mainland and foreign schools and other limited or specialized curriculum programs]

Year and type of enrollment and earned degree	All private institutions	Brigham Young Univ.-Hawaii Campus	Chaminade Univ. of Honolulu	Hawaii Loa College	Hawaii Pacific College
1984					
Fall enrollment 1/	8,215	1,912	2,471	430	3,402
Undergraduate	8,056	1,912	2,312	430	3,402
Graduate	159	-	159	-	-
Other 2/	-	-	-	-	-
Earned degrees conferred: 3/					
Associate	254	54	72	-	128
Bachelor's	658	174	246	66	172
Master's	66	-	66	-	-
Others	-	-	-	-	-
1985					
Fall enrollment 1/	8,620	1,926	2,512	475	3,707
Undergraduate	8,396	1,926	2,288	475	3,707
Graduate	224	-	224	-	-
Other 2/	-	-	-	-	-
Earned degrees conferred: 3/					
Associate	200	32	41	-	127
Bachelor's	660	184	251	45	180
Master's	53	-	53	-	-
Others	-	-	-	-	-

1/ In regular credit programs.
2/ Includes unclassified and special.
3/ Year ended June 30.
Source: Compiled by Hawaii State Department of Planning and Economic Development from college officials.

Table 105.-- EDUCATIONAL CHARACTERISTICS: 1970 AND 1980

Subject	1970	1980	Percent 1970	Percent 1980
SCHOOL ENROLLMENT				
Persons 3 years old and over enrolled in school 1/	235,765	266,181	100.0	100.0
Nursery school	7,707	12,808	3.3	4.8
Private	5,524	9,608	2.3	3.6
Kindergarten	14,615	14,289	6.2	5.4
Private	1,635	2,932	0.7	1.1
Elementary (1 to 8 years)	127,678	118,991	54.2	44.7
Private	13,770	19,644	5.8	7.4
High school (1 to 4 years)	57,455	65,609	24.4	24.6
Private	7,360	10,824	3.1	4.1
College	28,310	54,484	12.0	20.5
YEARS OF SCHOOL COMPLETED				
Persons 25 years old and over	384,843	547,608	100.0	100.0
Elementary: 0 to 4 years	32,080	28,969	8.3	5.3
5 to 8 years	63,256	59,576	16.4	10.9
High school: 1 to 3 years	51,365	54,793	13.3	10.0
4 years	138,307	192,042	35.9	35.1
College: 1 to 3 years	46,088	100,813	12.0	18.4
4 or more years	53,747	111,415	14.0	20.3

1/ 1970 figures include persons 3 to 34 years old only.

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 61.

Table 106.-- SCHOOL ENROLLMENT BY AGE: 1970 AND 1980

Age	Number enrolled in school		Percent enrolled in school	
	1970	1980	1970	1980
Persons 3 years old and over enrolled in school .	238,925	266,181	...	...
3 and 4 years old	7,097	11,436	24.5	39.0
5 and 6 years old	27,683	26,070	87.4	92.0
7 to 13 years old	108,757	102,604	96.7	98.9
14 and 15 years old	30,409	31,741	95.8	98.6
16 and 17 years old	26,362	31,711	90.8	93.4
18 and 19 years old	14,486	16,869	53.1	46.9
20 and 21 years old	7,672	11,164	22.4	25.6
22 to 24 years old	6,357	10,907	13.6	17.5
25 to 34 years old	6,942	15,254	6.4	8.5
35 years old and over	3,160	8,425	...	...

Source: U.S. Bureau of the Census, 1970 Census of Population, General Social and Economic Characteristics, Hawaii, PC(1)-C13 (December 1971), table 51; 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), table 66.

Table 107.-- EDUCATIONAL CHARACTERISTICS, BY COUNTIES: 1980

Subject	State	Hawaii	Honolulu	Kalawao	Kauai	Maui
Persons 18 to 24 years: percent enrolled	27.4	27.1	28.4	-	21.9	15.7
Persons 25 years old and over: percent --						
High school graduates	73.8	68.9	75.6	28.2	64.1	67.7
4 years or more of college ..	20.3	15.2	21.7	3.5	15.7	15.3

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 56.

Table 108.-- YEARS OF SCHOOL COMPLETED BY PERSONS 25 YEARS OLD AND OVER, BY AGE: 1983

[Excludes persons in institutions, military barracks, Kalawao, or Niihau. Based on a sample survey of 8,999 persons 25 years old and over]

Years of school completed	25 years old and over	25 to 44 years old	45 to 64 years old	65 years old and over
All levels .	568,457	301,746	187,182	79,529
None	5,302	672	1,401	3,230
1 to 4 years	12,377	840	3,644	7,893
5 to 8 years	45,346	5,506	16,347	23,493
9 to 11 years ...	42,786	17,215	17,958	7,613
12 years	215,043	116,394	81,623	17,026
Vocational	33,062	19,484	11,743	1,834
13 to 15 years ..	83,483	60,746	18,265	4,472
16 years	67,044	44,297	16,224	6,524
17 years or more	54,911	33,862	16,686	4,363
Not reported	9,102	2,729	3,292	3,081
Median 1/ (years)	12.8	12.3	12.6	10.4

1/ Excludes vocational and not reported.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 109.-- ILLITERACY AND YEARS OF SCHOOL COMPLETED: 1930 TO 1980

[Data refer to persons 15 years old and over in 1930 and 1980 and to persons 14 years old and over in 1940, 1950, 1960, and 1970]

Year	Illiterate 1/		With less than 1 year of school		With less than 5 years of school	
	Number	Percent	Number	Percent	Number	Percent
1930	41,018	17.5	(NA)	(NA)	(NA)	(NA)
1940 2/ ...	(NA)	(NA)	37,048	12.3	76,612	25.4
1950	(NA)	8.4	27,060	7.8	61,285	17.6
1960	21,000	5.0	21,032	4.9	47,467	11.1
1970	(NA)	1.9	12,831	2.3	33,886	6.1
1980	(NA)	(NA)	11,218	1.5	29,929	4.0

NA Not available.

1/ Defined as the inability to read and write. Data for 1930 are based on a direct census question regarding illiteracy; data for later years are estimates by the Bureau of the Census, based on national surveys on illiteracy and data by States on years of school completed.

2/ Years of school completed based on actual data for persons 25 years old and over and estimates (based on 1950 rates for persons 25 to 34) for persons 14 to 24.

Source: Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1977), p. 229; U.S. Bureau of the Census, decennial census bulletins, 1940-1980.

Table 110.-- STANFORD ACHIEVEMENT TEST RESULTS FOR PUBLIC SCHOOL GRADES 4, 6, 8, AND 10: 1978 TO 1984

[Percent of students taking test. National norms are: below average, 23 percent; average, 54 percent; above average, 23 percent]

Grade, subject, and level	1978	1979	1980	1981	1982	1983	1984
GRADE 4							
Reading:							
Below average ..	27	25	24	19	20	18	(NA)
Average	57	57	58	58	59	59	(NA)
Above average ..	16	18	18	23	21	23	(NA)
Math:							
Below average ..	27	26	26	22	23	23	(NA)
Average	50	51	51	52	53	53	(NA)
Above average ..	23	23	23	26	24	24	(NA)
GRADE 6							
Reading:							
Below average ..	25	23	21	17	16	16	15
Average	57	59	60	62	62	63	64
Above average ..	18	18	19	21	22	21	21
Math:							
Below average ..	25	24	23	19	19	20	20
Average	50	50	51	52	53	53	54
Above average ..	25	26	26	29	28	27	26
GRADE 8							
Reading:							
Below average ..	33	32	30	29	26	23	24
Average	54	55	56	56	59	61	60
Above average ..	13	13	14	15	15	16	16
Math:							
Below average ..	27	28	26	23	22	21	22
Average	51	51	51	53	53	55	55
Above average ..	22	21	23	24	24	24	23

Continued on next page.

Table 110.-- STANFORD ACHIEVEMENT TEST RESULTS FOR PUBLIC SCHOOL GRADES 4, 6, 8, AND 10: 1978 TO 1984 -- Con.

Grade, subject, and level	1978	1979	1980	1981	1982	1983	1984
GRADE 10							
Reading:							
Below average ..	34	32	32	34	32	29	27
Average	51	52	52	51	52	54	55
Above average ..	15	16	16	15	16	17	18
Math:							
Below average ..	26	26	25	25	24	24	22
Average	52	53	53	54	55	55	57
Above average ..	22	21	22	21	21	21	21

NA Not available.

Source: Hawaii State Department of Education, Test Development and Administration Section, Summary Report of Statewide Testing Program, 1984, pp. 10, 18, and 26.

Table 111.-- FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES: 1975 TO 1982

[Thousands of dollars. Fiscal years]

Fiscal year	State total	University of Hawaii at Manoa
1975	28,023	26,888
1976	37,615	34,937
1977	34,827	28,465
1978	44,070	25,884
1979	40,271	29,525
1980	44,940	31,935
1981	37,927	27,280
1982	41,190	28,278

Source: National Science Foundation, Federal Support to Universities, Colleges, and Selected Nonprofit Institutions, Fiscal Year 1982, Final Report NSF 84-315 (March 1984), pp. 46 and 48.

Table 112.-- HAWAII STATE LIBRARY SYSTEM LOCATIONS, PERSONNEL, AND HOURS: 1979 TO 1984

Year	Number of library locations, June 30			Personnel, June 30 1/		Hours open 2/
	State total	Oahu	Other islands	Librarians	All others	
1979 ..	46	22	24	117	312.80	54
1980 ..	47	22	25	122	313.30	54
1981 ..	47	22	25	122	315.30	54
1982 ..	47	22	25	124.40	349.55	54
1983 ..	47	22	25	126	356.55	54
1984 ..	49	23	26	131	361.05	54

1/ Full-time equivalent basis, excluding student help. For 1984, data include permanent and temporary State general funded positions and temporary Federal funded positions.

2/ Regular weekly totals for Hawaii State Library, 478 So. King St., Honolulu.

Source: Hawaii State Department of Education, Office of the State Librarian, information submitted March 21, 1985.

Table 113.-- HAWAII STATE LIBRARY SYSTEM COLLECTIONS AND CIRCULATION: 1979 TO 1984

Year	Collections, June 30			Circulation, year ended June 30
	Books	Audio-visuals, microforms 1/	Other print 1/	
1979	1,924,572	476,235	752,643	5,008,477
1980	2,025,200	513,595	797,691	5,042,682
1981	2,118,238	518,513	804,735	5,267,042
1982	2,238,973	(NA)	(NA)	5,263,130
1983	2,203,394	648,747	1,494,294	5,321,684
1984	2,207,382	282,248	1,700,307	5,490,734

NA Not available.

1/ Microforms included with "other print" in 1984.

Source: Hawaii State Department of Education, Office of the State Librarian, data submitted March 21, 1985.

Table 114.-- CHARACTERISTICS OF THE HAWAII STATE LIBRARY SYSTEM: 1984

District	Library locations, June 30	Personnel, June 30 1/	Circulation, year ended June 30
Total system	49	492.05	5,490,734
Oahu	23	277.0	3,767,817
Hawaii State Library	1	84.0	600,925
Library for the Handicapped ..	1	14.5	38,806
East Oahu Library District ...	12	109.0	2,097,778
West Oahu Library District ...	9	69.5	1,030,308
Other islands	26	133.55	1,722,917
Hawaii Library District	13	59.55	860,998
Kauai Library District	5	31.5	393,230
Maui Library District 2/	8	42.5	468,689
Administration	...	81.5	...

District	Collections, June 30		
	Books	Audio-visuals	Other print
Total system	2,207,382	282,406	2,160,643
Oahu	1,511,730	211,546	1,700,307
Hawaii State Library	445,611	83,419	1,188,660
Library for the Handicapped ..	76,887	4,862	1,459
East Oahu Library District ...	687,657	94,705	321,947
West Oahu Library District ...	301,575	28,560	188,241
Other islands	695,652	70,860	460,336
Hawaii Library District	287,897	22,605	243,611
Kauai Library District	187,506	32,926	98,528
Maui Library District 2/	220,249	15,329	118,197

1/ Full-time equivalent basis. Data are limited to regular, general funded positions, and exclude student help.

2/ Includes libraries on Lanai (1 location), Maui (6 locations), and Molokai (1 location).

Source: Hawaii State Department of Education, Office of the State Librarian, data submitted March 21, 1985.

Table 115.-- UNIVERSITY OF HAWAII LIBRARY SYSTEM HOLDINGS AND CIRCULATION, BY CAMPUS: 1984 AND 1985

Campus	Number of volumes, June 30		Circulation, year ended June 30	
	1984	1985	1984	1985
All campuses	2,374,096	2,443,863	583,671	559,466
University of Hawaii at Manoa	1,950,795	2,013,146	370,419	351,280
West Oahu College	18,717	19,444	5,627	6,972
University of Hawaii at Hilo 1/	170,336	178,555	51,000	51,403
Community colleges, total 1/	234,248	232,718	156,625	149,811
Honolulu	51,085	53,121	52,145	47,355
Kapiolani	33,440	33,471	15,349	13,532
Leeward	51,484	51,746	42,809	37,831
Windward	29,216	29,426	12,123	13,738
Kauai 2/	34,203	34,293	11,639	18,950
Maui	34,820	30,661	22,560	18,405

1/ Hawaii Community College is included with the University of Hawaii at Hilo.

2/ Library closed for approximately half of the 1983-1984 school year for hurricane damage repairs.

Source: University of Hawaii at Manoa, University Libraries, data provided February 8, 1985 and December 17, 1985.

Section 4

LAW ENFORCEMENT, COURTS AND PRISONS

Statistics in this section refer to crimes committed, victims of crime, arrests, the police, attorneys, the judiciary system, prisons, and youth correctional facilities.

Major offenses reported to the police in 1984 numbered 57,000, compared with 59,000 in 1983 and 51,000 in 1974. The rate per 1,000 resident population increased from 59 in 1974 to 74 in 1980, then declined to 55 in 1984. Seventy-eight percent of the 1984 total occurred on Oahu. Visitors have been found to be disproportionately victimized. For the State as a whole, major offenses known to police in 1984 included 34 murders or cases of non-negligent manslaughter, 315 rapes, 1,202 robberies, 857 aggravated assaults, 12,588 burglaries, 38,292 cases of larceny, and 3,625 auto thefts. The value of property reported stolen in 1984 amounted to $27 million, exclusive of motor vehicles; only 7.0 percent was recovered. Authorities confiscated 533,000 marijuana plants, with an estimated value of $47 million, during the year. Confirmed instances of child abuse and neglect numbered 1,670. Seventeen percent of the major offenses known to police were cleared by arrest or otherwise in 1984. Forty percent of the persons arrested for major crimes and 23 percent of those arrested for lesser offenses in 1984 were less than eighteen years of age. The number of inmates in the ten State correctional institutions averaged 1,652 during fiscal 1984; of this number, 974 were adults serving time for felonies. Cases concluded in the State Supreme Court, Intermediate Court of Appeals, four circuit courts, and four district courts and their divisions during fiscal 1984 numbered 931,000, including 812,000 traffic cases. Filings in the United States District Court for Hawaii included 1,459 civil cases, 3,030 criminal cases, and 630 bankruptcy cases. The last legal execution in Hawaii took place in 1947. There were 3,180 attorneys licensed in Hawaii as of mid-1985.

Statistics on law enforcement, courts, and corrections in Hawaii appear in the annual reports of the county police departments, the State Judiciary, the Intake Service Center, and the Administrative Office of the United States Courts. The Hawaii Criminal Justice Data Center issues quarterly and annual reports titled Crime in Hawaii. Figures on crime, the courts, and corrections in earlier years appear in Historical Statistics of Hawaii, Section 10. National data are summarized in the Statistical Abstract of the United States: 1985, Section 6.

Table 116.-- ACTUAL MAJOR (PART I) OFFENSES KNOWN TO THE POLICE, BY COUNTIES: 1974 TO 1984

[Part I offenses include murder, negligent and non-negligent manslaughter, forcible rape, robbery, aggregated assault, burglary, larceny-theft, motor vehicle theft, and, since 1979, arson. Arson, however, is excluded from this table. Actual offenses include reported or known offenses, less unfounded cases]

Year	State total		City and County of Honolulu	Hawaii County	Kauai County	Maui County
	Number	Rate 1/				
1974	51,451	59.3	43,572	3,031	1,732	3,116
1975	51,782	58.6	43,612	3,202	1,777	3,191
1976	55,603	61.6	45,307	3,918	2,172	4,206
1977	57,978	63.3	46,389	4,178	2,127	5,284
1978	63,333	68.2	51,273	4,455	2,407	5,198
1979	65,597	69.0	52,310	4,634	2,425	6,228
1980	71,292	73.6	56,885	5,222	2,637	6,548
1981	63,454	64.7	48,938	5,623	2,505	6,388
1982	64,679	64.9	49,826	5,516	2,515	6,822
1983	59,086	58.0	45,874	4,869	2,303	6,040
1984	56,913	54.8	44,560	4,697	2,145	5,511

1/ Annual rate per 1,000 resident population, July 1.

Source: Hawaii Criminal Justice Data Center, Crime in Hawaii 1984 (May 1985), and data compiled from Police Department annual reports.

Table 117.-- ACTUAL PART I OFFENSES KNOWN TO THE POLICE, BY TYPE OF OFFENSE, FOR THE STATE OF HAWAII: 1974 TO 1984

Offense	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
All Part I offenses	51,451	51,782	55,603	57,978	63,333	65,597	71,292	63,454	64,679	59,086	56,913
Murder, non-neg. manslaughter	72	67	55	63	57	67	85	47	31	57	34
Negligent manslaughter	104	124	134	117	132	135	135	98	29	29	-
Forcible rape	229	206	194	227	225	296	327	314	319	300	315
Robbery	997	1,087	1,152	1,151	1,561	1,674	1,821	1,444	1,561	1,315	1,202
Aggravated assault	514	495	564	551	529	587	620	570	590	868	857
Burglary	15,223	15,680	16,463	16,944	17,203	16,390	17,668	16,611	16,337	13,589	12,588
Larceny	29,319	29,596	32,232	34,508	38,497	39,942	44,766	40,102	41,568	38,585	38,292
Motor vehicle theft	4,993	4,527	4,809	4,417	5,129	6,506	5,870	4,268	4,244	4,343	3,625

Source: Compiled by Hawaii Criminal Justice Data Center from Annual Reports of the Hawaii County Police Department, Honolulu Police Department, Kauai Police Department, and Maui Police Department.

Table 118.-- ACTUAL OFFENSES KNOWN TO POLICE AND OFFENSES CLEARED BY ARREST OR OTHERWISE, BY CLASS OF OFFENSE, BY COUNTIES: 1984

[Arson, reclassified as a Part I offense effective 1979, is included as a Part II offense in this table]

County	Actual offenses known to police		Number cleared by arrest or otherwise 1/		Clearances per 100 offenses 1/	
	Part I	Part II, except traffic	Part I	Part II, except traffic	Part I	Part II, except traffic
State total .	56,913	94,240	9,697	61,341	17.0	65.1
Honolulu	44,560	70,110	6,817	47,030	15.3	67.1
Hawaii	4,697	6,361	1,310	3,771	27.9	59.3
Kauai	2,145	2,958	544	1,396	25.4	47.2
Maui	5,511	14,811	1,026	9,144	18.6	61.7

1/ Data include prior years' offenses cleared in current year.

Source: Hawaii Criminal Justice Data Center, Crime in Hawaii 1984 (May 1985) and data compiled from county police departments, May 20, 1985.

Table 119.-- ACTUAL PART I OFFENSES KNOWN TO POLICE AND PART I OFFENSES CLEARED BY ARREST OR OTHERWISE, FOR THE STATE AND OAHU: 1984

[Excludes arson, reclassified as a Part I offense effective 1979]

Type of offense	Actual offenses known to police		Number cleared by arrest or otherwise 1/		Clearances per 100 offenses 1/	
	State total	Oahu only	State total	Oahu only	State total	Oahu only
All Part I offenses	56,913	44,560	9,697	6,817	17.0	15.3
Murder and non-neg. manslaughter	34	25	25	18	73.5	72.0
Manslaughter (neg.) ...	-	-	-	-	-	-
Rape	315	255	153	119	48.6	46.7
Robbery	1,202	1,117	338	297	28.1	26.6
Aggravated assault	857	553	524	297	61.1	53.7
Burglary	12,588	9,320	1,349	690	10.7	7.4
Larceny over $200	12,812	10,090	6,777	5,021	17.7	16.6
Larceny, $50-$200	10,140	7,961				
Larceny, under $50	15,340	12,140				
Auto theft	3,625	3,099	531	375	14.6	12.1

1/ Data include clearance of offenses reported in previous years.

Source: Hawaii Criminal Justice Data Center, tabulation from Uniform Crime Reporting program provided May 20, 1985.

Table 120.-- MAJOR OFFENSES REPORTED TO POLICE PER 100,000 POPULATION, BY RESIDENCE OF VICTIM, FOR OAHU, 1981-1982, AND KAUAI, 1978-1980

[Based on annual averages for Part I offenses, reported on Oahu for the 24-month period ended December 31, 1982 and on Kauai for the 32-month period ended August 1980. Resident victimization rates were based on resident population estimates; visitor victimization rates, on estimated average visitor census]

Offense	City and County of Honolulu, 1981-1982		County of Kauai, 1978-1980	
	Resident rates	Visitor rates	Resident rates	Visitor rates
All crimes ..	5,685.5	7,342.4	5,681.0	5,616.8
Violent crimes ...	233.0	296.2	228.0	200.0
Property crimes ..	5,452.5	7,046.2	5,453.0	5,416.8
Murder	3.7	1.5	7.5	0
Rape	27.5	30.5	22.6	62.1
Robbery	156.9	255.6	21.4	114.7
Assault	44.9	8.6	176.5	23.2
Burglary	1,407.3	2,045.4	1,722.9	959.3
Larceny	3,490.8	4,956.2	3,430.1	4,342.5
Auto theft 1/	554.4	44.6	300.0	115.0

1/ Oahu data include miscellaneous Part I offenses.

Source: Meda Chesney-Lind and Ian Y. Lind, Visitors As Victims: Crimes Against Tourists in Two Hawaii Counties (University of Hawaii, School of Social Work, Youth Development and Research Center, Research Report No. 293, February 1984), pp. 11a and 12a.

Table 121.-- PERSONS ARRESTED FOR PART I AND PART II OFFENSES, BY AGE AND SEX, FOR THE STATE AND OAHU: 1984

Age and sex	Arrested for Part I offenses 1/		Arrested for Part II offenses (except traffic) 2/	
	State total	Oahu only	State total	Oahu only
Total	10,000	7,665	33,134	24,951
Juveniles	4,007	3,174	7,473	5,314
Male	3,090	2,452	4,885	3,463
Female	917	722	2,588	1,851
Adults	5,993	4,491	25,661	19,637
Male	4,562	3,421	22,037	16,848
Female	1,431	1,070	3,624	2,789

1/ Includes negligent manslaughter but excludes arson.

2/ Includes arson but excludes negligent manslaughter.

Source: Hawaii Criminal Justice Data Center, tabulation from Uniform Crime Reporting program provided May 20, 1985.

Table 122.-- VALUE OF PROPERTY REPORTED STOLEN AND VALUE OF STOLEN PROPERTY RECOVERED, BY CATEGORY, FOR THE STATE AND OAHU: 1984

Type of stolen property	Value of property stolen ($1,000)	Value of stolen property recovered	
		Amount ($1,000)	Percent
All property stolen:			
State total	38,904.5	10,971.3	28.2
Oahu only	31,983.8	8,625.3	27.0
Locally stolen motor vehicles:			
State total	12,327.9	9,110.0	74.0
Oahu only	10,125.2	7,191.8	71.0
Other stolen property:			
State total	26,576.6	1,861.3	7.0
Oahu only	21,858.6	1,433.5	6.6

Source: Hawaii Criminal Justice Data Center, tabulation from Uniform Crime Reporting program provided May 20, 1985.

Table 123.-- MAJOR OFFENSES, OFFENSES CLEARED, PERSONS ARRESTED, AND VALUE OF PROPERTY STOLEN AND RECOVERED, FOR THE CITY AND COUNTY OF HONOLULU: 1981 TO 1984

Subject	1981	1982	1983 1/	1984
Actual major (Part I) offenses known to police	48,938	49,826	45,874	44,497
Murder; non-neglient manslaughter	40	25	45	25
Manslaughter (negligent)	97	29	29	23
Rape	239	246	247	251
Robbery	1,311	1,458	1,228	1,096
Aggravated assault	326	381	576	539
Burglary	12,461	12,241	9,997	9,284
Larceny	30,761	31,731	29,853	30,198
Over $50	17,839	17,897	16,796	18,050
Auto theft	3,703	3,715	3,899	3,081
Major (Part I) offenses cleared 2/	8,701	8,145	8,047	7,199
Per 100 offenses known	17.8	16.3	17.5	16.2
Persons arrested for Part I offenses	8,495	9,223	9,002	7,316
Juveniles under 18 years	3,848	4,061	3,589	3,140
Male	2,863	3,116	2,740	2,435
Female	985	945	849	705
Adults, 18 years and over	4,647	5,162	5,413	4,176
Value of property reported stolen 3/	26,966	23,920	22,798	24,456
Value of stolen property recovered 4/	1,962	1,940	1,946	2,038
Percent recovered	7.3	8.1	8.5	8.3

1/ Revised from Data Book, 1984, table 135.
2/ By arrest or otherwise. Includes prior years offenses.
3/ Thousands of dollars. Excludes stolen automobiles.
4/ Includes prior years stolen property recovered.

Source: Honolulu Police Department, Annual Statistical Report (annual).

Table 124.-- MARIJUANA CONFISCATED BY AUTHORITIES, BY COUNTIES: 1984

County	Number of plants	Weight (pounds)	Estimated value 1/ (dollars)
State total	533,238	237,090	47,418,000
Hawaii	325,761	97,929	19,585,800
Maui	37,388	33,744	6,748,800
Honolulu	120,238	28,558	5,711,600
Kauai	49,851	76,859	15,371,800

1/ A "wet" weight value of $200 per pound was used in estimating the value of marijuana confiscated. That figure was used by most counties (Kauai county used $1,000 per pound).

In 1985, however, the four county police department will be using the $1,000 per plant value. The potential value per plant rather than the poundage is more consistent with the actual value of the crop.

The data above were provided by the four police departments and pertain only to marijuana plants confiscated. Data on confiscated, harvested and manicured marijuana were not available. The "street" value of processed marijuana is believed to be between $1,800 and $2,200 per pound.

Source: Hawaii Criminal Justice Data Center, data provided March 5, 1985.

Table 125.-- CHILD ABUSE AND NEGLECT REPORTS: 1980 TO 1983

Year	Reports	Confirmed
1980	2,099	1,106
1981	2,355	1,173
1982	2,677	1,408
1983	3,631	1,670

Source: Hawaii State Department of Social Services and Housing, records.

Table 126.-- DISPOSITION OF ADULTS AND JUVENILES ARRESTED FOR PART I AND PART II OFFENSES, FOR THE CITY AND COUNTY OF HONOLULU: 1983

Age group and disposition	Part I offenses	Part II offenses
ADULTS		
Persons arrested	5,413	18,052
Released	946	1,603
Charged	4,457	16,449
Dispositions by district and circuit courts	2,542	8,884
Convicted	965	6,044
Fine	498	4,233
Jail	303	655
Probation, suspended sentence	164	1,156
Other convictions	-	-
Bail forfeitures	-	-
Discharged	1,483	2,576
Stricken N/P	94	264
JUVENILES		
Arrests	3,589	4,629
Released without charges	649	190
Counseled and released	1,291	1,428
Social agencies	-	26
Family Court	1,359	2,864

Source: Honolulu Police Department, Annual Statistical Report, 1983.

Table 127.-- COURTS, JUDGES, MAGISTRATES, AND ATTORNEYS: 1984 AND 1985

[As of June 30]

Subject	1984	1985
Federal judges and magistrates: 1/		
U.S. Bankruptcy Court	1	1
U.S. District Court	3	3
State justices and judges: 2/		
Supreme Court	5	5
Intermediate Court of Appeals	3	3
Circuit Courts 3/	24	24
Assigned to Family Court	1	1
District Courts 4/	29	29
Assigned to Family Court	7	7
Land Court	(5/)	(5/)
Tax Appeal Court	(5/)	(5/)
Attorneys licensed in Hawaii	2,963	3,180

1/ Full-time and part-time. In addition, 1 judge of the U.S. Court of Appeals maintains an office in Honolulu.

2/ Authorized full-time positions.

3/ Includes one judge assigned to the Family Court, a division of the Circuit Courts. In addition, Circuit Court judges may be assigned to hear matters before the Land Court and Tax Appeal Court, both of which are specialized courts separate from the Circuit Courts. There are four Circuit Courts, convened in five locations.

4/ Includes judges assigned to the Family Court, a division of the Circuit Courts. There are four District Courts, one in each of the four judicial circuits, convened in 23 locations.

5/ Caseload assigned to Circuit Court judges.

Source: Office of the Clerk, U.S. District Court, records; Office of the Clerk, U.S. Bankruptcy Court, records; Office of the Administrative Director of the Courts, State Judiciary, records.

Table 128.-- UNITED STATES DISTRICT COURT CASES: 1982 TO 1984

[Years ended June 30]

Subject	1982	1983 1/	1984
Civil cases:			
Commenced	636	1,136	1,459
Terminations	685	715	1,347
Pending, end of period	1,020	1,441	1,553
Criminal cases:			
Commenced (including transfers)	1,947	2,408	3,030
Terminations	1,964	1,924	2,833
Pending, end of period	575	1,058	1,255
Bankruptcy:			
Commenced, total	788	677	630
Business	257	266	249
Nonbusiness	527	411	381
Terminations	601	722	331
Pending, end of period	1,578	1,442	1,741

1/ Revised from Data Book 1984, table 149.

Source: Administrative Office of the United States Courts, Annual Report of the Director for 1982, 1983, and 1984.

Table 129.-- STATE JUDICIARY TERMINATIONS: 1975 TO 1985

[Fiscal years ended June 30]

Court and type of case	1975	1976	1977	1978	1979	1980
All courts, total ..	604,176	623,453	685,282	719,773	818,750	760,231
Supreme Court	405	520	563	729	876	1,023
Civil cases	69	97	97	95	111	75
Criminal cases	65	50	41	68	149	150
Other proceedings	271	373	425	566	616	798
Intermediate Court of Appeals 2/	...	...	...	...	...	42
Civil cases	...	...	...	...	...	13
Criminal cases	...	...	...	...	...	21
Other cases	...	...	...	...	...	8
Circuit Courts proper ...	9,334	8,094	8,626	9,151	8,744	10,581
Civil cases	3,870	3,462	3,732	4,073	3,367	3,871
Criminal cases	2,097	1,638	1,532	1,716	1,962	2,279
Part I offenses	885	654	766	764	837	844
Part II offenses	1,212	984	766	952	1,125	1,435
Other proceedings	3,367	2,994	3,362	3,362	3,415	4,431
Family Courts	17,015	17,256	19,010	20,194	20,952	21,525
Civil cases	6,624	7,396	8,538	9,314	10,277	10,510
Criminal cases	31	45	24	50	40	81
Other proceedings	10,360	9,815	10,448	10,830	10,635	10,934
District Courts	577,422	597,583	657,083	689,699	788,178	727,060
Civil cases	12,232	10,953	10,330	10,200	11,382	11,894
Traffic cases	524,345	545,340	609,323	640,468	733,196	669,033
Other violations	20,733	24,881	18,926	18,888	22,096	22,696
Criminal cases	20,112	16,409	18,504	20,143	21,504	23,437
Part I offenses	3,781	2,515	3,254	3,368	3,651	3,513
Part II offenses	16,331	13,894	15,250	16,775	17,853	19,924

Continued on next page.

Table 129.-- STATE JUDICIARY TERMINATIONS: 1975 TO 1985 -- Con.

Court and type of case	1981	1982	1983	1984	1985
All courts, total ..	890,048	946,347	999,447	930,586	945,903
Supreme Court 1/	1,158	1,434	1,483	1,817	2,769
Civil cases	116	168	250	174	199
Criminal cases	136	140	164	228	241
Other proceedings	906	906	1,126	1,069	2,329
Intermediate Court of Appeals 2/	350	298	222	183	179
Civil cases	157	136	91	97	70
Criminal cases	45	27	35	23	28
Other cases	148	135	96	63	81
Circuit Courts proper ...	8,778	9,882	10,304	21,573	13,248
Civil cases	3,627	4,401	4,732	13,918	6,288
Criminal cases	1,853	2,145	1,865	4,383	3,252
Part I offenses	788	937	737	1,810	1,309
Part II offenses	1,065	1,208	1,128	2,573	1,943
Other proceedings	3,298	3,336	3,707	3,272	3,708
Family Courts	20,442	21,179	22,176	27,583	28,773
Civil cases	9,252	10,121	9,619	12,722	11,833
Criminal cases	45	47	45	233	149
Other proceedings	11,145	11,011	12,512	14,628	16,791
District Courts	859,320	913,554	965,262	879,430	900,934
Civil cases	15,992	22,597	18,926	18,920	19,509
Traffic cases	792,767	841,844	897,713	811,816	831,505
Other violations	24,401	24,066	23,351	20,803	18,101
Criminal cases	26,160	25,047	25,272	27,891	31,819
Part I offenses	4,426	4,275	5,259	5,340	4,777
Part II offenses	21,734	20,772	20,013	22,551	27,042

1/ Data exclude cases transferred to the Intermediate Court of Appeals: 281 in 1980, 121 in 1981, 132 in 1982, 94 in 1983, 105 in 1984, and 142 in 1985.

2/ The Intermediate Court of Appeals was installed on April 18, 1980. Data exclude cases transferred back to the Supreme Court: 1 in 1981, 4 in 1982, 1 in 1983, and 1 in 1984.

Source: Hawaii State Judiciary, Office of the Administrative Director of the Courts, records.

Table 130.-- STATE JUDICIARY CASES FILED, BY TYPE OF ACTION: 1983 AND 1984

[Years ended June 30]

Court and type of action	1983	1984
Supreme Court, total	1,535	1,906
Primary cases	518	572
Appeals	485	534
Original proceedings	33	38
Supplemental proceedings	1,017	1,334
Intermediate Court of Appeals, total	179	158
Primary cases	91	101
Appeals	91	100
Original proceedings	-	1
Supplemental proceedings	88	57
Circuit Courts Proper, total	17,086	14,453
Primary proceedings	15,349	13,315
Civil actions	8,921	6,960
Probate proceedings	1,726	1,738
Guardianship proceedings	347	356
Miscellaneous proceedings	1,135	1,280
Criminal actions	3,220	2,981
Part I offenses	1,308	1,071
Part II offenses	1,912	1,910
Supplemental proceedings	1,737	1,138
Family Courts, total	24,597	27,644
Primary proceedings, referrals	20,829	22,250
Marital actions, proceedings	7,579	7,749
Adoption proceedings	800	759
Paternity/parental proceedings	1,214	1,398
Miscellaneous proceedings	2,533	3,011
Criminal actions	127	157
Adults' referrals	542	871
Children and minors' referrals	8,034	8,305
Supplemental proceedings	3,768	5,394
District Court, total	966,111	919,460
Civil	18,373	19,607
Regular	13,491	14,219
Small claims	4,882	5,388
Traffic	897,441	847,327
Moving - arrest and citation	194,055	190,216
Non-moving	135,156	134,406
Parking	568,230	522,705
Other violations	23,353	24,153
Criminal actions	26,944	28,373
Part I offenses	5,576	5,434
Part II offenses	21,368	22,939

Source follows next table.

Table 131.-- STATE JUDICIARY CASE TERMINATIONS, BY TYPE: 1983 AND 1984

[Years ended June 30]

Court and type of termination	1983	1984
Supreme Court, total	1,577	1,922
Opinion filed	279	220
Dismissal motion granted	20	31
Withdrawn or discontinued	99	100
Transferred	94	105
Other disposition	1,085	1,466
Intermediate Court of Appeals, total	223	184
Opinion filed	119	115
Dismissal motion granted	1	1
Withdrawn or discontinued	9	7
Transferred	1	1
Other disposition	93	60
Circuit Courts Proper, total	10,304	21,573
No service	279	991
No answer	626	965
No statement of readiness	64	78
Dismissal: Notice of	718	1,630
Stip. for	2,052	6,052
By judge	557	1,646
Nonjury: Trial	176	379
Trial not completed	15	17
Jury: Verdict	291	586
Trial not completed	15	41
No trial held	1,061	2,481
Hearings: Contested	385	246
Uncontested	1,527	1,957
Others	2,538	4,504
Family Courts, total	22,176	27,583
Nolle prosequi	15	23
Dismissal	5	89
Nonjury: Trial	43	67
Trial not completed	5	2
Jury: Verdict	4	-
Trial not completed	-	1
No trial held	1,184	1,083
Hearings: Contested	4,456	6,346
Uncontested	7,432	8,957
Counseling service	3,447	4,598
Others	5,585	6,417

Continued on next page.

Table 131.-- STATE JUDICIARY CASE TERMINATIONS, BY TYPE: 1983 AND 1984 -- Con.

Court and type of termination	1983	1984
District Court, total	965,262	879,430
Felonies	1,531	1,649
Stricken or discharged	299	381
By commitment to Grand Jury	629	140
By commitment to Circuit Court ..	603	1,128
Misdemeanors	23,741	26,242
By discharge or dismissal	6,822	7,405
By nolle prosequi	1,756	1,459
Stricken	1,544	1,499
By bail forfeiture	1,758	2,278
By commitment to Circuit Court ..	524	382
By conviction	11,337	13,219
Civil cases	18,926	18,920
By discontinuance or dismissal ..	7,776	7,392
By default or confession	9,665	10,689
By trial	1,386	720
By commitment to Circuit Court ..	102	119
Traffic and other violations	921,064	832,619
By discontinuance or dismissal ..	-	9
By discharge or dismissal	126,496	114,989
By nolle prosequi	21,668	19,840
Stricken	71,695	61,563
By bail forfeiture	559,093	516,075
By commitment to Circuit Court ..	27	73
By conviction	142,085	120,070

Source: The Judiciary, State of Hawaii, Annual Report, July 1, 1982 to June 30, 1983, Statistical Supplement, tables 1A, 1B, 7, 17, and 22; The Judiciary, State of Hawaii, Annual Report, July 1, 1983 to June 30, 1984, Statistical Supplement, tables 1A, 1B, 7, 17, and 22.

Table 132.-- INMATES PRESENT IN STATE CORRECTIONAL FACILITIES: ANNUAL AVERAGES, 1975 TO 1985

[For fiscal years ended June 30. Excludes county facilities prior to their transfer to State control. Halawa Jail on Oahu, Hawaii County Jail, and Maui County Jail became State correctional facilities on July 1, 1975; Kauai County Jail became a State facility on June 20, 1977]

Year	All categories	Adult facilities 1/			Juvenile facilities 2/	
		Felons	Misdemeanants 3/	Not sentenced	Boys	Girls
1975	(NA)	312	(NA)	(NA)	60	16
1976	530	326	47	100	46	11
1977	544	319	39	117	56	13
1978	592	351	48	129	54	10
1979	698	412	48	170	61	7
1980	817	480	74	177	76	10
1981	952	561	82	210	88	11
1982	1,155	681	86	295	85	8
1983	1,402	812	120	391	73	6
1984	1,652	974	166	435	71	6
1985	2,022	1,321	246	374	70	11

NA Not available.

1/ As of 1985, data include seven separate facilities: Oahu, Hawaii, Kauai, and Maui Community Correctional Centers, Kulani Correctional Facility, Halawa High Security Facility, and Hawaii Women's Correctional Facility.

2/ Hawaii Youth Correctional Facility.

3/ Includes felon probationers serving jail terms under one year.

Source: Hawaii State Intake Service Centers, information submitted December 13, 1985.

Table 133.-- MEDIAN AGES AND AVERAGE SENTENCES OF FELON POPULATION: 1976 TO 1984

[Years ended June 30. These data cover only those felons under the jurisdiction of the State's correctional facilities. These include long-term felons and those in hospitals, in mainland facilities, and on community release status. Parolees are not included. Average sentence calculations include life with parole sentences]

Year	Median age (years) 1/		Average sentences (months)				
	At admission	Currently	Felons admitted		Felons released		
			Minimum	Maximum	Minimum	Maximum	Time served
1976	25.7	26.2	43.8	80.5	31.5	126.3	30.2
1977	26.5	25.4	55.9	102.2	32.7	120.7	32.6
1978	25.3	27.6	52.6	99.1	38.5	108.0	35.8
1979	26.5	26.6	59.8	119.0	34.8	89.2	36.9
1980	26.1	25.3	69.4	151.3	53.7	113.6	46.4
1981	27.0	27.8	40.7	173.5	55.7	124.9	47.4
1982	26.8	27.3	38.8	135.8	58.8	131.6	52.2
1983	27.5	29.2	49.2	127.2	40.5	98.5	47.5
1984	27.9	30.3	53.8	142.2	39.7	112.8	46.2

1/ For felon population on June 30. Due to a change in data systems, data for 1983 and later years are not directly comparable with figures for previous years.

Source: State Department of Social Services and Housing, State Intake Service Centers, *Trends of the Felon Population: Adults Committed to Correctional Facilities, FY 1974-75 to FY 1981-82*, Report No. 83-001 (January 1983); *Hawaii's Felons: A Statistical Report on Hawaii's Prison Population*; Report No. 85-001 (August 1985); and records.

Table 134.-- HAWAII PAROLING AUTHORITY STATISTICAL SUMMARY: 1983 AND 1984

[Years ended June 30]

Item	1983	1984
Number of parolees, June 30 1/	438	496
Parolees in Hawaii	271	321
Parolees outside Hawaii	54	63
Absconders	113	112
Minimum imprisonment terms fixed	877	1,044
Number of persons for whom terms fixed	280	397
Persons considered for parole	184	173
Paroles granted	79	117
Paroles denied	74	45
Persons reconsidered for minimum terms previously set	36	150
Terms reset	2	6
Terms reset/parole granted	3	5
Terms undisturbed	28	107
Deferred reconsideration	3	32
Parole violation hearings	19	18
Parole revocations	13	10
Continued on parole	2	7
Deferred decision/hearing	4	0
Pardon investigations	11	25
Persons pardoned	9	17
Persons whose paroles were suspended because their whereabouts unknown	12	13
Discharges	48	64
Discharged from parole	28	42
Final discharge	17	21
Deceased	3	1

1/ In addition, provided courtesy supervision to 33 interstate cases on June 30, 1983 and 15 on June 30, 1984.

Source: Hawaii State Department of Social Services and Housing, Annual Report of the Hawaii Paroling Authority.

Section 5

GEOGRAPHY AND ENVIRONMENT

This section relates to land and water areas, physical geography, climate, air and water quality, noise, and other geographic and environmental measurements of Hawaii. Most statistics on land use and ownership, however, appear in Section 6.

The State consists of eight major islands and 124 minor islands with a total land area of 6,425 square miles and a general coastline of 750 miles. Honolulu is 214 miles from Hilo, 1,367 miles from Kure Atoll (the westernmost end of the State), 2,397 miles from San Francisco, and 4,829 miles from Washington, D.C. The highest peak in the State is Mauna Kea, 13,796 feet above sea level; the longest stream is Kaukonahua Stream, Oahu, 33 miles in length; the deepest lake is Kauhako, on Molokai, 814 feet; and the highest named waterfall is Kahiwa, Molokai, a 1,750-foot cascade. Various measures of air pollution, such as suspended particulate matter, indicate that Honolulu is one of the cleanest cities in the nation. There is also relatively little water pollution: the 34 major beaches surveyed in 1984 were found to have fecal coliform levels per 100 ml. ranging from 2.3 to 109.7, and all 34 were within EPA standards. More than 1,200 species, subspecies, and varieties of native fauna and flora have been proposed or accepted for inclusion on lists of endangered, threatened, or extinct organisms. Climatically, Hawaii is marked by remarkably balmy temperatures and wide variations in rainfall. The all-time temperature range at Honolulu International Airport, for example, was from 53° to 94°F. Average precipitation, however, ranges from less than nine inches at Kawaihae to 451 inches atop Waialeale. The largest volcanic eruptions in Island history (1859 and 1950) each produced 600 million cubic yards of lava, the worst earthquake attained 7.5 on the Richter scale, the highest tsunami wave reached 56 feet, and the most destructive hurricane (Iwa, in 1982) gusted to 117 miles per hour. Water withdrawn for use in 1980 averaged 2.9 billion gallons per day, compared with 2.8 billion in 1975 and 2.7 billion in 1970. Among 31 neighborhoods on Oahu, median noise levels in 1981-1982 ranged from 37 decibels (in Mililani) to 57 decibels (in Pawaa).

Important sources of data include the U.S. Geological Survey, National Ocean Survey, National Weather Service, U.S. Bureau of the Census Geography Division, the Division of Water and Land Development of the State Department of Land and Natural Resources, the State Department of Health, and the University of Hawaii Institute of Geophysics. Detailed information is given in *Atlas of Hawaii*, 2nd edition, published by the University of Hawaii Press in 1983. National data are reported in *Statistical Abstract of the United States: 1985*, Section 7.

Table 135.-- GREAT CIRCLE DISTANCES BETWEEN SPECIFIED PLACES

Place	Statute miles	Kilometers
DISTANCES FROM HONOLULU INTERNATIONAL AIRPORT		
Hawaiian Islands locations:		
Hilo, Hawaii	214	344
Kailua, Kona, Hawaii	168	270
Kahului, Maui	98	158
Lanai Airport	72	116
Molokai Airport	54	87
Lihue, Kauai	103	166
Puuwai, Niihau	152	245
Nihoa	283	455
Necker Island	520	837
French Frigate Shoals	556	895
Gardner Pinnacles	688	1,107
Maro Reef	851	1,369
Laysan Island	936	1,506
Lisianski Island	1,065	1,714
Pearl and Hermes Atoll	1,208	1,944
Midway Islands	1,309	2,106
Kure Atoll	1,367	2,200
Other Pacific locations:		
Apra Harbor, Guam	3,806	6,124
Auckland, New Zealand	4,393	7,068
Hong Kong	5,541	8,915
Johnston Atoll	820	1,319
Kingman Reef	1,073	1,726
Kiritimati (Christmas Island), Kiribati	1,344	2,163
Majuro, Marshall Islands	2,271	3,654
Manila, Philippines	5,293	8,516
Nuku Hiva, Marquesas Islands	2,400	3,864
Pago Pago, American Samoa	2,606	4,193
Palmyra Atoll	1,101	1,772
Papeete, Tahiti	2,741	4,410
Suva, Fiji	3,159	5,083
Sydney (Port Jackson), Australia	5,070	8,158
Tokyo, Japan	3,847	6,190
Wake Island	2,294	3,691
North and South American locations:		
Anchorage, Alaska	2,781	4,475
Cape Horn, Chile	7,457	11,998

Continued on next page.

Table 135.-- GREAT CIRCLE DISTANCES BETWEEN SPECIFIED PLACES -- Con.

Place	Statute miles	Kilometers
DISTANCES FROM HONOLULU INT. AIRPORT--Con.		
North and South American locations, con.:		
Chicago, Illinois	4,179	6,724
Cristobal, Canal Zone	5,214	8,389
Los Angeles, California	2,557	4,114
Miami, Florida	4,856	7,813
New York, New York	4,959	7,979
Portland, Oregon	2,595	4,175
San Diego, California	2,610	4,199
San Francisco, California	2,397	3,857
Seattle, Washington	2,679	4,311
Vancouver, B.C.	2,709	4,359
Tijuana, Mexico	2,616	4,209
Washington, D.C.	4,829	7,770
London, England	7,226	11,627
Bombay, India	8,010	12,888
Ghanzi, Botswana 1/	12,417	19,979
Equator, due south of Honolulu	1,470	2,367
North Pole	4,740	7,631
OTHER DISTANCES		
Hilo to --		
Los Angeles, California	2,447	3,937
San Francisco, California	2,315	3,725
Kure Atoll to --		
Cape Kumukahi, Puna, Hawaii 2/	1,523	2,451
Log Point, Elliot Key, Florida 3/	5,852	9,416
Tokyo, Japan	2,486	4,000
West Quoddy Head, Maine	5,788	9,313

1/ Ghanzi, Botswana, is Honolulu's antipode, that is, the point precisely opposite to it on the globe.

2/ Cape Kumukahi and Kure Atoll are the points farthest apart in the Hawaiian Archipelago and State of Hawaii.

3/ Log Point and Kure Atoll are the points farthest apart in the fifty states.

Source: U. S. Department of the Interior, Geological Survey, Elevations and Distances in the United States (1970), and distance computations prepared for the Department of Planning and Economic Development.

Table 136.-- WIDTHS AND DEPTHS OF CHANNELS

Channel 1/	Width 2/		Depth 3/	
	Statute miles	Kilometers	Feet	Meters
Alenuihaha (Hawaii-Maui)	29.6	47.6	6,810	2,076
Alalakeiki (Kahoolawe-Maui)	6.7	10.8	822	251
Kealaikahiki (Kahoolawe-Lanai)	17.8	28.6	1,086	331
Auau (Lanai-Maui)	9.5	15.3	252	77
Kalohi (Lanai-Molokai)	9.2	14.8	540	165
Pailolo (Maui-Molokai)	8.8	14.2	846	258
Kaiwi (Molokai-Oahu)	25.8	41.5	2,202	671
Kauai (Oahu-Kauai)	72.1	116.0	10,890	3,319
Kaulakahi (Kauai-Niihau)	17.2	27.7	3,570	1,088
Niihau-Kaula	21.5	34.6	5,364	1,635
Niihau-Nihoa	133.9	215.5	14,550	4,435
Nihoa-Necker I.	179.6	289.0	12,600	3,840
Necker I.-French Frigate Shoals	100.3	161.4	12,780	3,895
French Frigate Shoals-Gardner Pinnacles ..	137.0	220.5	11,448	3,489
Gardner Pinnacles-Maro Reef	155.5	250.3	12,300	3,749
Maro Reef-Laysan I.	65.9	106.1	8,280	2,524
Laysan I.-Lisianski I.	137.4	221.1	16,830	5,130
Lisianski I.-Pearl and Hermes Atoll	162.6	261.7	17,400	5,304
Pearl and Hermes Atoll-Midway Islands	86.9	139.9	15,840	4,828
Midway Islands-Kure Atoll	57.1	91.9	12,960	3,950

1/ Listed in geographic order, from east to west. The channels between major islands were measured between the following points:

Alenuihaha: Upolu Pt., Hawaii, to Puhilele Pt., Maui;
Alalakeiki: Lae o ka Ule, Kahoolawe, to Nukuele Pt., Maui;
Kealaikahiki: Makaalae, Kahoolawe, to Kamaiki Pt., Lanai;
Auau: Kikoa Pt., Lanai, to Lahaina, Maui;
Kalohi: Wahie Pt., Lanai, to Kamalo, Molokai;
Pailolo: Lipoa Pt., Maui, to Pohakuloa, Molokai;
Kaiwi: Ilio Pt., Molokai, to Makapuu Pt., Oahu;
Kauai: Kaena Pt., Oahu, to Kamilo Pt., Kauai;
Kaulakahi: Mana Pt., Kauai, to Kaunuopou, Niihau.

2/ Width measured in statute miles between designated points on Nationa Ocean Survey and Coast and Geodetic Survey charts. Width in kilometers calculated from miles (1 mile = 1.60934 km.).

3/ Depths given are the deepest soundings noted at or near the line joining the two designated points, on National Ocean Survey and Coast and Geodetic Survey charts. Depths measured in fathoms and converted to feet and meters (1 fathom = 6 feet = 1.8288 meters).

Source: Compiled by Lee S. Motteler, Geography and Map Division, Bernice P. Bishop Museum, in November 1980.

Table 137.-- GENERAL COASTLINE AND TIDAL SHORELINE OF COUNTIES AND ISLANDS

County and island	General coastline 1/		Tidal shoreline 2/	
	Statute miles	Kilometers 3/	Statute miles	Kilometers 3/
State total	750	1,207	1,052	1,693
Counties:				
Hawaii	266	428	313	504
Maui, including Kalawao	210	338	343	552
Honolulu	137	220	234	377
Kauai	137	220	162	261
Islands: 4/				
Hawaii	266	428	313	504
Maui	120	193	149	240
Kahoolawe	29	47	36	58
Lanai	47	76	52	84
Molokai	88	142	106	171
Oahu	112	180	209	336
Kauai	90	145	110	177
Niihau	45	72	50	80
Kaula	2	3	2	3
Northwestern Hawaiian Islands 5/ ..	25	40	25	40
Nihoa	3	5	3	5
Necker Island	2	3	2	3
French Frigate Shoals	6	10	6	10
Laysan Island	6	10	6	10
Lisianski Island	3	5	3	5
Kure Atoll	5	8	5	8

1/ Figures are lengths of general outline of seacoast. Data for the four islands of Maui County are not consistent with the reported county total.

2/ Shoreline of outer coast, offshore islands, bays, rivers, and creeks is included to the head of tidewater or to a point where tidal waters narrow to a width of 100 feet.

3/ Derived from data expressed in statute miles; independently rounded and accordingly may not add exactly to indicated totals and subtotals. 1 mi. = 1.609 km.

4/ Data are not available for five minor islands: Molokini, Lehua, Gardner Pinnacles, Maro Reef, and Pearl and Hermes Atoll.

5/ Excludes the Midway Islands, which are part of the Hawaiian Archipelago but not legally part of the State of Hawaii. Midway has a general coastline of 20 miles and a tidal shoreline of 33 miles.

Source: U.S. Department of Commerce, National Ocean Survey, The Coastline of the United States (1975) and records.

Table 138.-- LAND AND WATER AREA OF COUNTIES AND ISLANDS: 1982

[See maps on page 6]

County or island	Square miles		
	Total	Land 2/	Inland water 3/
State total	6,470.8	6,425.2	45.6
Counties: 4/			
Hawaii	4,035.2	4,034.2	1.0
Maui	1,171.0	1,161.6	9.4
Kalawao	14.3	13.3	1.0
Honolulu 5/	620.5	596.3	24.2
Kauai 5/	629.8	619.8	10.0
Islands: 4/			
Hawaii	4,035.2	4,034.2	1.0
Maui 6/	734.5	728.6	5.9
Kahoolawe	45.9	45.0	0.9
Lanai	141.2	140.4	0.8
Molokai	263.7	260.9	2.8
Oahu	617.6	593.6	24.0
Kauai	558.2	549.4	8.8
Niihau 7/	71.1	70.0	1.1
Kaula	0.4	0.4	-
Northwestern Hawaiian Islands 8/	2.910	2.690	0.220
Nihoa	0.238	0.238	-
Necker Island	0.105	0.105	-
French Frigate Shoals	0.081	0.081	-
Gardner Pinnacles	0.011	0.011	-
Maro Reef	Awash	Awash	Awash
Laysan Island	1.454	1.234	0.220
Lisianski Island	0.586	0.586	-
Pearl and Hermes Atoll	0.106	0.106	-
Kure Atoll	0.329	0.329	-

Continued on next page.

Table 138.-- LAND AND WATER AREA OF COUNTIES AND ISLANDS: 1982 -- Con.

County or island	Square kilometers 1/		Acres 1/	
	Total	Land 2/	Total	Land 2/
State total	16,759.3	16,641.2	4,141,312	4,112,128
Counties: 4/				
Hawaii	10,451.1	10,448.5	2,582,528	2,581,888
Maui	3,032.9	3,008.5	749,440	743,424
Kalawao	37.0	34.4	9,152	8,512
Honolulu 5/	1,607.1	1,544.4	397,120	381,632
Kauai 5/	1,631.2	1,605.3	403,072	396,672
Islands: 4/				
Hawaii	10,451.1	10,448.5	2,582,528	2,581,888
Maui 6/	1,902.3	1,887.1	470,080	466,304
Kahoolawe	118.9	116.5	29,376	28,800
Lanai	365.7	363.6	90,368	89,856
Molokai	683.0	675.7	168,768	166,976
Oahu	1,599.6	1,537.4	395,264	379,904
Kauai	1,445.7	1,422.9	357,248	351,616
Niihau 7/	184.1	181.3	45,504	44,800
Kaula	1.0	1.0	256	256
Northwestern Hawaiian Islands 8/	7.5	7.0	1,862	1,722
Nihoa	0.6	0.6	152	152
Necker Island	0.3	0.3	67	67
French Frigate Shoals	0.2	0.2	52	52
Gardner Pinnacles	0.0	0.0	7	7
Maro Reef	Awash	Awash	Awash	Awash
Laysan Island	3.8	3.2	931	790
Lisianski Island	1.5	1.5	375	375
Pearl and Hermes Atoll	0.3	0.3	68	68
Kure Atoll	0.9	0.9	211	211

1/ Areas in square kilometers and acres were calculated directly from the figures shown for square miles; these equivalents were independently rounded, and hence may not add exactly to the indicated totals and subtotals. 1 square mile = 640 acres = 2.58999 square kilometers.

2/ Dry land and land temporarily or partially covered by water, as marshland, swamps, etc.; streams and canals under one-eighth statute mile wide; and lakes, reservoirs, and ponds under 40 acres of area.

Continued on next page.

Table 138.-- LAND AND WATER AREA OF COUNTIES AND ISLANDS: 1982 -- Con.

3/ Permanent inland water surface, such as lakes, reservoirs, and ponds having 40 acres or more of area; streams, sloughs, estuaries, and canals one-eighth statute mile or more in width; deeply indented embayments and sounds, and other coastal waters behind or sheltered by headlands or islands separated by less than 1 nautical mile of water, and islands having less than 40 acres of area.

4/ Because of rounding, island figures may not add to county figures.

5/ Kaula, included here with Kauai County, has also been claimed by the City and County of Honolulu.

6/ Molokini, offshore of Maui, not measured; other sources give the area of Molokini as 18.6 acres (0.03 square miles or 0.075 square kilometers).

7/ Includes Lehua, previously reported as 243 acres (0.38 square miles or 0.98 square kilometers).

8/ Exclusive of the Midway Islands, which are part of the Hawaiian Archipelago but not legally part of the State of Hawaii.

Source: Unpublished data supplied by the Geography Division, U.S. Bureau of the Census, May 5, 1983; cited in the Hawaii State Department of Planning and Economic Development, Remeasurements of the Area of Hawaii, 1982 (Statistical Memorandum 83-6, May 18, 1983).

Table 139.-- MAJOR AND MINOR ISLANDS IN THE HAWAIIAN ARCHIPELAGO

Classification	Number of islands: Total	Number of islands: Inhabited, 1980 1/	Land area (square miles)
All named islands	137	15	6,427.0
Major islands	8	7	6,419.4
Named minor islands 2/	129	8	7.6
Offshore of major islands	96	4	2.6
Northwestern Hawaiian Islands 3/	33	4	4.9
Part of State	28	3	2.9
Not part of State (Midway Islands)	5	1	2.0

1/ For populations, see present volume, table 5.

2/ For individual data, see DPED Report GN-6, pp. 3-7.

3/ The 33 islets are in 10 clusters.

Source: Hawaii State Department of Planning and Economic Development, Geographic Names Approved, Second Quarter 1969 (Report GN-6, July 8, 1969), p. 8; data for Midway Islands supplied by Lee S. Motteler, Bishop Museum.

Table 140.-- ELEVATIONS OF MAJOR SUMMITS

[Elevation of the highest point on each island
and other important peaks]

Island and mountain	Feet	Meters
Hawaii:		
Mauna Kea 1/	13,796	4,205
Mauna Loa 1/	13,679	4,169
Hualalai	8,271	2,521
Kaumu o Kaleihoohie	5,480	1,670
Kilauea (Uwekahuna)	4,093	1,248
Kilauea (Halemaumau Rim)	3,660	1,116
Kahoolawe:		
Puu Moaulanui	1,483	452
Puu Moaulaiki	1,434	437
Molokini	160	49
Maui:		
Haleakala (Red Hill)	10,023	3,055
Haleakala (Kaupo Gap)	8,201	2,500
Puu Kukui	5,788	1,764
Iao Needle	2,250	686
Lanai:		
Lanaihale	3,370	1,027
Molokai:		
Kamakou	4,961	1,512
Olokui	4,606	1,404
Kaunuohua	4,535	1,382
Kalaupapa Lookout	1,600	488
Mauna Loa (Kukui)	1,430	436
Oahu:		
Kaala	4,017	1,224
Puu Kalena	3,504	1,068
Konahuanui	3,150	960
Tantalus	2,013	614
Olomana	1,643	501
Koko Crater (Kohelepelepe)	1,208	368
Nuuanu Pali Lookout	1,186	361
Diamond Head	760	232
Koko Head	642	196
Punchbowl	500	152

Continued on next page.

Table 140.-- ELEVATIONS OF MAJOR SUMMITS -- Con.

Island and mountain	Feet	Meters
Kauai:		
Kawaikini	5,243	1,598
Waialeale	5,148	1,569
Namolokama Mountain	4,421	1,348
Kalalau Lookout	4,120	1,256
Haupu	2,297	700
Sleeping Giant (Nonou)	1,241	378
Niihau:		
Paniau	1,281	390
Lehua	699	213
Kaula	550	168
Nihoa:		
Millers Peak	910	277
Necker Island:		
Summit Hill	277	84
French Frigate Shoals:		
La Perouse Pinnacles	135	41
Gardner Pinnacles	190	58
Maro Reef	Awash	Awash
Laysan Island	35	11
Lisianski Island	20	6
Pearl and Hermes Atoll	10	3
Midway Islands	12	4
Kure Atoll	20	6

1/ The adjacent ocean floor has an average depth of 2,800 fathoms and a maximum depth of 3,045 fathoms. Thus, Mauna Kea and Mauna Loa rise respectively 30,596 feet and 30,479 feet above their submarine bases as calculated from average depths, and respectively 32,066 and 31,499 feet above as calculated from maximum depths. So measured, Mauna Kea and Mauna Loa are the world's tallest mountains.

Source: U.S. National Cartographic Information Center, data provided October 11, 1978; U.S. Geological Survey topographic maps; E. D. Baldwin, 1883 Molokini figure on Hawaiian Government Survey Reg. Map No. 1276; National Geodetic Survey 1969 figure for Kaala, provided by U.S. Geological Survey, Honolulu office, July 23, 1984; U.S.S. Tanager survey, 1923 (for Pearl and Hermes Atoll). Data compiled with assistance of Lee S. Motteler, Bernice P. Bishop Museum.

Table 141.-- MAJOR STREAMS, BY ISLANDS

Island	Feature or stream	Length or ave. discharge
Longest water feature (miles):		
Hawaii	Wailuku River	32.0
Maui	Kalialinui-Waiale Gulch	18.0
Kahoolawe	Ahupu Gulch	4.0
Lanai	Maunalei-Waialala Gulch	12.9
Molokai	Wailau-Pulena Stream	6.5
Oahu	Kaukonahua Stream (So. Fork)	33.0
Kauai	Waimea River-Poomau Stream	19.5
Niihau	Keanaulii-Puniopo Valley	5.9
Largest perennial stream (miles): 1/		
Hawaii	Wailuku River	22.7
Maui	Palikea Stream	7.8
Molokai	Wailau-Pulena Stream	6.5
Oahu	Kaukonahua Stream	30.0
Kauai	Waimea River	19.7
Streams with greatest average discharge (million gal./day):		
Hawaii	Wailuku River	185
Maui	Iao Stream	54
Molokai	Wailau Stream	30
Oahu	Waikele Stream	25
Kauai	Hanalei River	140

1/ Estimated on basis of drainage area rather than stream runoff. Other major streams include Wailoa River, Hawaii (1/2-mile long); Honokohau Stream (9.4 miles long) and Iao Stream (5), both on Maui; Halawa Stream (6.4), Waikolu Stream (4.7), and Pelekunu (2.3), all on Molokai; Waikele Stream (15.3), Kipapa Stream (12.8), Waiakakalaua Stream (11.8), Nuuanu Stream (4), and Ala Wai Canal (1.9), all on Oahu; and the Makaweli River (15.1), Wainiha River (13.8), Hanapepe River (13.3), and Wailua River (11.8), all on Kauai.

Source: Longest water feature from U.S. Geological Survey, records; other data from Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, records.

Table 142.-- LAKES AND LAKE-LIKE WATERS, BY ISLANDS: 1985

Island and lake	Elevation (feet)	Area [1] (acres)	Maximum depth (feet)	Type
Hawaii:				
'Aimakapa	(SL)	15	(NA)	Coastal pool
Green Lake	3	2	20	Lake
Lake Waiau [2]	13,020	2	10	Lake
Waiakea Pond	(SL)	27	7	Tidal Pond
Maui:				
Kanaha Pond	(SL)	41	<3	Marsh
Kealia Pond	(SL)	500	(NA)	Marsh
Violet Lake	5,020	0.02-1	(NA)	Bog Pool
Wai 'Anapanapa	6,790	0.2	(NA)	Pond
Wai'ele'ele	6,690	0.5	21	Pond
Molokai:				
Kauhako	(SL)	0.9	814	Pool
Kualapu'u Reservoir	821	100	50	Reservoir
Meyer Lake	2,021	6-10	5	Impoundment
Oahu:				
Ka'elepulu Pond	(SL)	198	(NA)	Lake
Kawainui Marsh	(SL)	1,000	(NA)	Marsh
Salt Lake	(SL)	49	2	Lake
Wahiawa Reservoir	842	302	85	Reservoir
Kauai:				
Nomilu Fishpond	(SL)	20	66	Pond
Waita Reservoir	241	424	23	Reservoir
Niihau:				
Halali'i Lake	(SL)	841-865	(NA)	Playa
Halulu Lake	(SL)	182-371	(NA)	Playa
Laysan:				
Unnamed closed lagoon	(SL)	161	16	Closed Lagoon

Footnotes and source on next page.

Table 142.-- LAKES AND LAKE-LIKE WATERS, BY ISLANDS: 1985 - Con.

NA Not available.

SL Sea level.

1/ Ranges shown for Violet Lake, Meyer Lake, Halali'i Lake, and Halulu Lake reflect differences in estimates between DOWALD and Maciolek.

2/ Highest lake in the State and third highest in the United States.

Source: J.A. Maciolek, Lakes and Lake-like Waters of the Hawaiian Archipelago (Bernice P. Bishop Museum, Occasional Papers, Vol. XXV, No. 1, April 30, 1982; Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, data provided June 12, 1985; Hawaii State Department of Planning and Economic Development, Resource Management Plan for Kawainui Marsh (March 1983); William H. Meyer, U.S. Fish and Wildlife Service, transmittal letter (to DPED, Coastal Zone Management Program), for Kealia Pond National Wildlife Refuge, Maui, Hawaii, Final EIS (EIS No. 116, August 1981).

Table 143.-- MAJOR NAMED WATERFALLS, BY ISLANDS

Island	Waterfall	Height (feet)		Horizontal distance (feet)
		Sheer drop	Cascade	
Hawaii ..	Kaluahine	...	620	400
	Akaka	442	...	...
Maui	Honokohau	...	1,120	500
Molokai .	Kahiwa	...	1,750	1,000
	Papalaua	...	1,200	500
Oahu	Kaliuwaa (Sacred) 1/ .	80	1,520	3,000
Kauai ...	Waipoo (2 falls)	...	800	600
	Awini	...	480	500

1/ Sheer drop refers to northernmost fall of a cascade of six falls.

Source: U.S. Geological Survey, records; Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, records.

Table 144.-- MISCELLANEOUS GEOGRAPHIC STATISTICS, BY ISLANDS

Island	Extreme length (miles)	Extreme width (miles)	Miles of sea cliffs with heights 1,000 ft. or more 1/	Miles from coast of most remote point	Percent of area within 5 miles of coast
The State ..	...	...	33	28.5	48.6
Hawaii	93	76	4	28.5	30.0
Maui	48	26	-	10.6	76.1
Kahoolawe	11	6	-	2.4	100.0
Lanai	18	13	1	5.2	100.0
Molokai	38	10	14	3.9	100.0
Oahu	44	30	-	10.6	79.0
Kauai	33	25	11	10.8	67.0
Niihau	18	6	3	2.4	100.0

Island	Percent of area with elevation --		Approximate mean altitude (feet)	Percent of area with slope --	
	Less than 500 feet	2,000 feet or more		Less than 10 percent	20 percent or more
The State ..	20.8	50.9	3,030	63.5	17.0
Hawaii	12.0	68.4	3,950	76.0	4.0
Maui	24.9	41.4	2,390	38.5	36.0
Kahoolawe	38.9	0	600	60.0	9.0
Lanai	24.8	6.3	1,140	61.0	16.0
Molokai	37.3	17.8	1,150	53.0	26.0
Oahu	45.3	4.6	860	42.5	45.5
Kauai	35.6	24.0	1,380	33.5	50.5
Niihau	78.2	0	530	68.0	12.5

1/ According to Lee S. Motteler, Geography and Map Division, Bernice P. Bishop Museum, the sea cliffs along the northeastern coast of Molokai between Umilehi Point and Puukaoku Point drop 3,250 feet at an average slope of 58 degrees. These cliffs have been described by the Guinness Book of World Records (1984 edition, p. 108) as "the highest sea cliffs yet pinpointed anywhere in the world."

Source: Hawaii State Department of Planning and Economic Development, Hawai'i, the Natural Environment (1974), p. 19; U.S. Geological Survey, Elevations and Distances in the United States (1978), pp. 4-5.

Table 145.-- VOLCANIC ERUPTIONS: 1975 TO 1985

[Complete through May 31, 1985. Four volcanoes have erupted in historical times: Haleakala, last active around 1790; Hualalai, last active in 1800-1801; and Kilauea and Mauna Loa, both active during the past decade and included in this table]

Volcano and date of outbreak	Repose period since previous eruption (months)	Duration (days)	Location	Elevation (feet)	Area (square miles)	Volume (1,000 cubic yards)
Mauna Loa:						
1975: July 5	301	<1	Summit	13,000	5.2	35,000
1984: March 25 ..	104	22	Summit, east rift	13,200-9,400	11±	230,000
Kilauea:						
1975: Nov. 29 ...	11.0	<1	Caldera	3,600-3,520	0.1	300
1977: Sept. 13 ..	21.5	18	East rift	2,080-1,600	3.0	45,000
1979: Nov. 16 ...	26.3	1	East rift	3,270-3,200	0.1	800
1982: April 30 ..	29.5	<1	Caldera	3,630	0.1	260
Sept. 25 ..	4.9	<1	Caldera	3,620	0.3	3,900
1983: Jan. 3	3.3	879	East rift	2,560-2,120	15.3	376,000

Source: Gordon A. Macdonald and Douglass H. Hubbard, *Volcanoes of the National Parks in Hawaii*, 8th edition (Hawaii Natural History Association, 1982), pp. 10, 19, 34, and 58, as updated by the staff of the Hawaiian Volcano Observatory through May 31, 1985.

Table 146.-- EARTHQUAKES OF MAGNITUDE 5 OR GREATER: 1975 TO 1985

[Complete to March 31, 1985]

Date		Location	Magnitude (Richter Scale)
1975:	Jan. 1, 2:41 AM ...	Near Pahala, Hawaii	5.1
	Jan. 1, 3:20 AM ...	Mauna Loa, Hawaii	5.1
	Jan. 2	Near Pahala, Hawaii	5.6
	Jan. 5	Mauna Loa, Hawaii	5.1
	Nov. 29, 3:35 AM ..	Puna, Hawaii	5.7
	Nov. 29, 4:47 AM ..	Puna, Hawaii	7.2
1977:	Jan. 22	100 miles S. of Kauai	5.0
1979:	March 29	40 miles S.W. of Oahu	5.5
	Sept. 21	Puna, Hawaii	5.5
1981:	March 5	Molokai area	5.0
	Nov. 10	Kilauea, Hawaii	5.3
1982:	Jan. 21, 11:52 AM .	Mauna Loa, Hawaii	5.5
	Jan. 21, 12:29 PM .	Mauna Loa, Hawaii	5.5
	May 14	Off Kawaihae, Hawaii	5.0
1983:	Nov. 16	S.E. flank of Mauna Loa ..	6.3-6.6

Source: Hawaii Institute of Geophysics, records; U.S. Geological Survey, National Earthquake Information Service. Data provided by Professor Augustine S. Furumoto, Hawaii Institute of Geophysics, University of Hawaii, May 28, 1985.

Table 147.-- TSUNAMIS WITH RUN-UP OF 2 METERS (6.6 FEET) OR MORE: 1946 TO 1985

[Correct to March 31, 1985]

Date	Maximum height in Hawaii		Deaths in Hawaii	Damage in Hawaii (dollars)
	Meters	Feet		
1946: April 1	17.0	55.8	159	26,000,000
1952: Nov. 4	6.1	20.0	-	1,000,000
1957: March 9	16.0	52.5	-	5,000,000
1960: May 22	10.5	34.5	61	23,000,000
1964: March 27	4.8	15.7	-	67,590
1975: Nov. 29	14.6	48.0	2	1,500,000

Source: George Pararas-Carayannis, Catalog of Tsunamis in the Hawaiian Islands (U.S. Coast and Geodetic Survey, May 1969); Robert C. Schmitt, "Catastrophic Mortality in Hawaii," The Hawaiian Journal of History, Vol. III (1969), pp. 66-86; Harold G. Loomis, The Tsunami of November 29, 1975 in Hawaii (Hawaii Institute of Geophysics, December 1975), pp. 1 and 10; D.C. Cox and J. Morgan, Local Tsunamis and Possible Local Tsunamis in Hawaii (Hawaii Institute of Geophysics, Report HIG 77-14, November 1977); Hawaii Institute of Geophysics, records.

Table 148.-- MAJOR DAMS: 1985

Name	Location	Height (ft.)	Length (ft.)	Volume of water impounded (acre ft.)
Wahiawa Dam ...	Wahiawa, Oahu	98	460	7,671
Waita	Koloa, Kauai	28	3,250	6,500
Kualapuu	Kualapuu, Molokai .	58	7,100	4,265
Alexander Dam .	Kalaheo, Kauai	119	600	2,500
Nuuanu No. 4 ..	Honolulu, Oahu	73	1,730	1,420

Source: Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, records.

Table 149.-- WATER USE, BY TYPE, BY ISLANDS: 1980

[Millions of gallons per year]

Type of water and use	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai	Niihau
Agricultural:								
Ground water	136,510	1,720	47,300	330	140	70,360	16,650	10
Surface water	237,950	3,630	129,130	-	990	16,170	88,030	-
Recycled water	32,970	50	9,730	-	-	3,350	19,840	-
Commercial:								
Ground water	2,770	1,470	-	-	-	410	890	-
Domestic:								
Ground water	71,770	2,280	3,830	140	270	63,250	1,990	10
Surface water	3,880	130	3,500	-	80	-	170	-
Hydroelectric:								
Surface water	74,190	22,840	14,620	-	-	-	36,730	-
Industrial, thermoelectric:								
Ground water	31,520	24,740	-	-	10	4,880	1,890	-
Surface water	2,170	-	-	-	-	-	2,170	-
Seawater 1/	447,810	3,140	14,820	-	-	425,900	3,950	-
Industrial, other uses:								
Ground water	18,680	2,030	2,810		-	7,340	6,500	-
Surface water	11,220	4,080	2,910	-	30	-	4,200	-
Recycled water	4,130	1,900	160	-	-	200	1,870	-

1/ Includes water from wells near the seacoast.

Source: Data compiled by U.S. Geological Survey, cited in Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, Water Use in Hawaii, 1980 (Report No. R-79, 1984).

Table 150.-- POLLUTION ABATEMENT COSTS AND EXPENDITURES: 1983

[Unless otherwise specified, in millions of dollars. Statistics cover manufacturing establishments with 20 employees or more]

Subject	State total	Food and kindred products
Total pollution abatement capital expenditures	1.1	(NA)
Gross annual cost of pollution abatement	13.6	10.8
Payments to government units	1.3	1.3
Operating costs	12.4	9.6
Air	2.9	1.6
Water	5.4	4.0
Solid waste	4.1	4.0
Quantities of pollutants removed (1,000 short tons):		
Air:		
Particulates	(D)	27.9
Sulfur dioxides	(D)	-
Water:		
Total suspended solid	1,109.3	-
Biochemical oxygen demand	(Z)	(Z)
Other water pollutants	-	-
Solid waste	2,004.7	1,999.5

D Withheld to avoid disclosing operations of individual companies.
NA Not available.
Z Less than 500 short tons.

Source: U.S. Bureau of the Census, "Pollution Abatement Costs and Expenditures, 1983," Current Industrial Reports, MA-200(83)-1 (April 1985), pp. 16, 32, 46, and 68.

Table 151.-- WATER QUALITY AT SPECIFIED PUBLIC BEACHES: 1981 TO 1984

Island and beach	Number of samples, 1984	Fecal coliform density 1/ (geometric mean, MPN/100 ml)			
		1981	1982	1983	1984
Hawaii (Hilo side):					
Exit of Ice Pond	12	178.3	27.3	27.5	15.6
Leileiwi Beach Park	12	219.3	222.6	121.1	109.7
Onekahakaha	12	8.2	17.3	6.4	5.6
Puhi Bay No. 3	12	30.4	18.1	12.6	12.9
Hawaii (Kona side):					
Hapuna Beach	12	19.5	33.0	15.2	5.3
Kahaluu Beach	12	2.0	2.3	6.4	2.6
Kealakekua Bay (curio stand)	12	2.3	2.3	3.9	3.3
Kealakekua Bay (canoe landing) ...	12	2.4	2.3	4.4	4.4
Magic Sands Beach	12	2.4	8.0	3.4	5.4
Puako Beach Lots (middle)	12	9.0	29.6	21.4	9.5
Puako Beach Lots (south end)	12	18.6	74.0	21.2	46.2
Spencer Beach Park	12	29.5	14.6	4.7	9.8
Maui:					
Hukilau Hotel shoreline	11	2.0	2.9	3.3	3.0
Kahului Breakwater	-	2.0	3.1	...	...
Wailuku Breakwater	-	2.8	3.4	...	...
Maui Sheraton 2/	12	2.0	2.7	2.3	...
Oahu:					
Ala Moana Park (ewa)	22	5.6	11.0	6.8	5.7
Ala Moana Park (center)	12	4.1	4.9	2.0	2.7
Ala Moana Park (diamond head)	12	5.4	5.8	6.2	3.1
Elks Club Beach	12	4.0	4.9	4.0	5.4
Ewa Beach	10	6.3	5.5	4.4	4.8
Ft. DeRussy Beach	12	5.2	18.5	5.6	6.8
Gray's Beach	21	5.7	6.0	5.7	5.4
Hanauma Bay	12	8.1	13.0	6.8	9.5
Kahana Park Beach	12	43.6	62.2	24.0	58.2
Kahanamoku Beach	11	4.5	3.3	3.4	2.4
Kahanamoku Lagoon (diamond head) .	23	79.8	38.5	23.3	16.8
Kailua Bay outfall shoreline	12	2.3	5.3	2.0	3.8
Kailua Beach Park	12	3.7	5.7	3.1	2.5
Kokokahi Pier	12	25.6	48.5	29.8	12.1
Kuhio Beach	12	5.2	23.9	9.7	8.4
Public Bath Beach	21	3.6	3.3	2.5	3.3
Tavern Beach	12	3.5	7.3	4.4	6.1
Sand Island, Pt. No. 3	12	4.4	2.7	2.9	2.3

Continued on next page.

Table 151.-- WATER QUALITY AT SPECIFIED PUBLIC BEACHES: 1981 TO 1984 - Con.

Island and beach	Number of samples, 1984	Fecal coliform density 1/ (geometric mean, MPN/100 ml)			
		1981	1982	1983	1984
Kauai:					
Brennecke Beach	4	2.0	2.0	4.1	2.5
Hanalei Bay Landing	3	16.7	60.1	86.0	42.8
Poipu Beach	4	2.7	2.5	2.0	4.4

MPN Most probable number.

1/ The geometric mean standard for fecal coliform density is 200 MPN per 100 ml.

2/ Site discontinued January 1, 1984.

Source: Hawaii State Department of Health, Pollution Investigation and Enforcement Branch, data supplied April 30, 1985.

Table 152.-- AVERAGE WATER TEMPERATURES AT WAIKIKI BEACH

[In Fahrenheit degrees]

Month	Morning	Afternoon
March	75	77
August	77	82

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, Local Climatological Data, Annual Summary With Comparative Data, Honolulu, Hawaii, 1983.

Table 153.-- WATER SERVICES AND CONSUMPTION, FOR COUNTY WATERWORKS: 1980 TO 1984

Subject and geographic area	1980	1981	1982	1983	1984
NUMBER OF SERVICES, JUNE 30					
State total	175,382	178,250	179,648	181,980	185,044
City and County of Honolulu .	124,752	125,903	126,400	127,540	129,080
Honolulu 1/	58,082	58,349	58,159	58,173	58,462
Rest of Oahu	66,670	67,554	68,241	69,367	70,618
Hawaii County	22,446	23,215	23,682	24,218	24,834
Kauai County	10,169	10,632	10,823	11,049	11,501
Maui County	18,015	18,500	18,743	19,173	19,629
Maui	16,892	17,376	17,607	18,007	18,413
Molokai	1,123	1,124	1,136	1,166	1,216
CONSUMPTION 2/ (MILLION GALLONS)					
State total	55,610	58,574	56,719	59,724	63,670
City and County of Honolulu .	42,519	44,216	42,646	44,535	47,389
Honolulu 1/	24,168	25,086	24,317	25,658	26,636
Rest of Oahu	18,351	19,130	18,329	18,877	20,753
Hawaii County	4,433	4,664	4,753	5,066	5,409
Kauai County	2,745	2,780	2,805	3,240	3,492
Maui County	5,913	6,914	6,515	6,883	7,380
Maui	5,649	6,620	6,235	6,592	7,073
Molokai	265	294	280	292	307

1/ Maunalua to Moanalua.

2/ Year ended June 30.

Source: Data compiled by Hawaii State Department of Planning and Economic Development from Honolulu Board of Water Supply, Hawaii County Department of Water Supply, Kauai Department of Water, and Maui Department of Water Supply.

Table 154.-- AIR QUALITY IN DOWNTOWN HONOLULU: 1974 TO 1984

[Sampling is conducted approximately 46 ft. above ground on the roof of the State Health Department building, 1250 Punchbowl Street, Honolulu, Hawaii]

Year	Annual arithmetic means (ug/m^3)	
	Total suspended particulates	Sulfur oxides
1974	35	10
1975	40	9
1976	34	23
1977	31	17
1978	29	18
1979	32	22
1980	37	18
1981	40	19
1982	29	11
1983	26	<5
1984	25	<5
Standards: 1/		
Primary	75	80
Secondary	60	...

1/ Primary and secondary National Ambient air quality standards have been promulgated by the Federal government. Primary standards are designed to prevent adverse effects on public health, while secondary standards are designed to prevent adverse effects on public welfare, including the effects on comfort, visibility, vegetation, animals, aesthetic values, and soiling and deterioration of materials.

Source: Hawaii State Department of Health, Pollution Investigation and Enforcement Branch, data supplied April 23, 1985.

Table 155.-- AIR QUALITY AT SPECIFIED LOCATIONS: 1984

[24-hour sampling, in micrograms per cubic meter]

Sampling station	Total suspended particulates			Sulfur dioxide		
	Annual range		Arithmetic average	Annual range		Arithmetic average
	Minimum	Maximum		Minimum	Maximum	
Oahu:						
Barbers Point ...	17	112	54	<5	<5	<5
Downtown Honolulu	11	48	25	<5	<5	<5
Kalihi Kai 1/ ...	...	...	...	...	...	...
Liliha 2/	18	56	33	...	...	...
Pearl City 3/ ...	15	45	28	<5	<5	<5
Waikiki 1/	...	...	...	...	...	...
Waimanalo	9	60	25	...	...	...
Maui:						
Kahului	24	121	64	<5	62	7.8
Kihei	15	83	44	...	...	...
Hawaii:						
Hilo	7	27	15	<5	5	<5
Kauai:						
Lihue 3/	13	91	35	<5	<5	<5

1/ Site discontinued January 1, 1984.

2/ New site established at Kauluwela Elementary School, January 19, 1984.

3/ Based on 11 months of data. SO_x sampling discontinued December 1, 1984.

Source: Hawaii State Department of Health, Pollution Investigation and Enforcement Branch, data supplied April 23, 1985.

Table 156.-- SOURCES OF AIR POLLUTANT EMISSIONS, BY COUNTIES: 1980

[Percent distributions for the sums of weights of sulfur oxides, particulate matter, carbon monoxide, hydrocarbons, and nitrogen oxide emissions]

Source	State total	Hawaii	Honolulu	Kauai	Maui
All sources	100.0	100.0	100.0	100.0	100.0
Transportation	43.0	38.1	47.4	40.6	35.8
Motor vehicles	40.1	36.2	43.9	35.7	33.1
Aircraft	2.3	1.1	2.9	2.3	1.6
Vessels	0.6	0.8	0.6	2.6	1.1
Fuel combustion in stationary sources	29.7	34.9	26.7	32.2	35.3
Steam electric	23.1	19.8	24.6	18.5	22.4
Gas utilities	0.1	(N)	0.1	(N)	(N)
Agricultural fuel	6.5	15.1	2.0	13.7	12.9
Industrial process losses ..	14.6	7.7	20.3	3.2	3.5
Refinery	4.8	(N)	6.5	(N)	(N)
Petroleum storage	0.7	1.1	0.8	(N)	0.5
Metalurgical	0.1	(N)	0.1	(N)	(N)
Mineral products	6.9	3.9	10.8	0.9	1.1
Off-highway const., farms and industries	2.1	2.7	2.1	2.3	1.9
Municipal incinerator	0.9	(N)	1.3	(N)	(N)
Agricultural burning	11.7	19.3	4.3	24.2	25.4

N Less than 0.05 percent.

Source: Hawaii State Department of Health, Environmental Permits Branch, information provided May 7, 1985.

Table 157.-- NOISE LEVELS DURING DAYLIGHT HOURS IN SPECIFIED NEIGHBORHOODS ON OAHU: 1981-1982

Neighborhood	Noise levels (in decibels) exceeded --					
	Manual sampling			Automatic sampling		
	10 percent of time	50 percent of time	90 percent of time	10 percent of time	50 percent of time	90 percent of time
Aina Haina	45.6	42.1	39.5	53.5	46.2	43.2
Aina Koa	48.1	43.1	40.1	52.9	45.8	42.5
Downtown	57	55	54	60	57	55
Hawaii Kai	46.5	41.6	38.9	53.5	46.9	42.9
Kahala	48.0	44.5	42.4	-	-	-
Kaimuki	51.8	44.6	41.7	57.2	47.6	43.3
Kalihi	53.5	49.6	47.4	-	-	-
Kapahulu	47.2	45.0	42.0	-	-	-
Kapalama-Liliha	46.4	45.1	42.5	-	-	-
Kuliouou	48.6	45.9	43.4	52.5	47.9	45.4
Liliha	46	45	43	-	-	-
Makiki	52.7	46.9	45.3	56.5	50.5	48.6
Manoa	45.4	42.6	40.7	51.5	46.0	43.4
Moiliili	53.7	50.2	46.9	60.0	53.4	48.9
Nuuanu	46.6	43.6	40.8	-	-	-
Palolo	49.3	44.6	41.6	65.0	52.4	45.4
Pawaa	59.8	57.1	55.2	60.8	57.1	54.7
Salt Lake	56	52	49	-	56	51
Waikiki	57.8	55.4	54.1	61.6	57.5	55.3
Waialae Iki ...	46.4	43.1	40.6	54.6	44.8	41.7
Aiea	58	54	52	59	56	54
Halawa	52	46	44	55	50	47
Hauula	53	48	45	56	51	47
Kailua	49.2	45.5	42.9	54.9	49.6	45.2
Kaneohe	43.8	40.9	38.9	49.7	43.5	40.9
Mililani	44	37	34	53	46	41
Nanakuli	54	50	47	58	52	48
Pearl City	51	47	45	55	50	48
Wahiawa	47.1	44.7	42.4	51.8	47.3	43.9
Waimanalo	53	50	48	55	51	49
Waipahu	54.1	50.5	47.4	58.8	53.6	50.4

Source: Hawaii State Department of Health, Environmental Protection and Health Services Division, Noise and Radiation Branch, records.

Table 158.-- TEMPERATURES AND PRECIPITATION FOR SELECTED PLACES

Island and station	Ground elevation (feet)	Average temperature (°F.)		Extreme temperature of record (°F.)		Average annual precipitation (inches)
		Coolest month	Warmest month	Lowest	Highest	
Hawaii:						
Hilo Airport	27	71.2	75.8	53	94	126.76
Hawaii Volcanoes Nat. Park Hdq.	3,971	57.6	63.2	37	85	102.81
Kailua	30	72.1	77.3	54	93	25.22
Puako 1/	10	73.1	79.8	52	98	9.47
Waimea (Kamuela)	2,670	62.3	66.8	34	90	40.05
Mauna Kea summit 2/	13,796	31.3	42.5	11	66	8.08
Maui:						
Hana	120	71.3	76.8	50	90	70.65
Haleakala summit	9,960	42.6	50.0	14	73	50.69
Kihei 3/	90	70.9	78.4	49	98	13.79
Kahului Airport	48	71.7	79.0	48	96	18.63
Lahaina	45	71.5	78.0	52	93	15.51
Molokai:						
Kaunakakai	12	...	...	...	...	14.08
Molokai Airport	450	70.2	77.6	48	90	29.21
Lanai:						
Lanai City	1,620	65.8	72.8	46	88	38.44
Oahu:						
Honolulu International Airport	7	72.6	80.2	53	94	22.68
Waikiki (Honolulu Zoo)	10	71.9	80.6	51	93	27.32
Manoa (Lyon Arboretum)	500	69.4	75.2	...	...	158.41
Kaneohe MCAS	10	72.9	79.1	58	90	43.88
Kahuku	25	71.6	78.8	49	95	41.10
Wheeler AFB	826	68.2	75.5	52	89	39.85
Waianae	20	72.1	79.7	45	96	20.31

Continued on next page.

Table 158.-- TEMPERATURES AND PRECIPITATION FOR SELECTED PLACES -- Con.

Island and station	Ground elevation (feet)	Average temperature (°F.)		Extreme temperature of record (°F.)		Average annual precipitation (inches)
		Coolest month	Warmest month	Lowest	Highest	
Kauai:						
Kilauea (town)	315	68.7	75.6	49	94	68.03
Lihue Airport	103	70.2	78.0	50	90	43.51
Poipu (Makahuena Pt.)	52	72.4	79.4	50	93	36.39
Kokee (Kanalohuluhulu)	3,600	54.9	65.5	31	83	72.25
Waialeale	5,075	...	...	...	...	451.00
Northwestern Hawaiian Islands:						
Midway	10	65.0	78.6	52	89	43.60

1/ Temperature data are for Mahukona.

2/ Based on incomplete and non-continuous data for 1966-1972.

3/ Temperature data refer to Puunene Airport.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Weather Service Pacific Region, data supplied March 17, 1976 and May 2, 1977, and National Climatic Data Center, Local Climatological Data, Annual Summary With Comparative Data, 1984 for Hilo, Kahului, Honolulu, and Lihue; Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, data supplied August 5, 1985.

Table 159.-- MONTHLY AND ANNUAL CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT

Month	Normal temperature (^{0}F)			Extreme temperature (^{0}F) 1/		Precipitation (inches)			
	Daily maximum	Daily minimum	Monthly	Record highest	Record lowest	Normal total	Maximum monthly	Minimum monthly	Maximum in 24 hours
Jan. .	79.9	65.3	72.6	87	53	3.79	14.74	0.21	6.72
Feb. .	80.4	65.3	72.8	88	53	2.72	13.68	0.06	6.88
Mar. .	81.4	67.3	74.3	88	55	3.48	20.79	0.01	17.07
Apr. .	82.7	68.7	75.7	89	59	1.49	8.92	0.01	4.21
May ..	84.8	70.2	77.5	90	62	1.21	7.23	0.05	3.44
June .	86.2	71.9	79.1	91	65	0.49	2.46	T	2.28
July .	87.1	73.1	80.1	91	67	0.54	2.01	0.03	1.03
Aug. .	88.3	73.6	81.0	93	67	0.60	3.08	T	2.35
Sept.	88.2	72.9	80.6	93	66	0.62	2.74	0.05	1.40
Oct. .	86.7	72.2	79.5	94	64	1.88	11.15	0.11	7.57
Nov. .	83.9	69.2	76.6	90	58	3.22	14.72	0.03	9.15
Dec. .	81.4	66.5	74.0	89	54	3.43	12.09	0.06	8.14
Ann. .	84.2	69.7	77.0	94	53	23.47	20.79	T	17.07

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Table 159.-- MONTHLY AND ANNUAL CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT -- Con.

Month	Relative humidity (percent) 2/		Wind (miles/hour)		Percent of possible sunshine	Mean sky cover, sunrise to sunset 3/	Mean number of days		
							Sunrise to sunset		Precip. .01 inch or more
	8 A.M.	2 P.M.	Mean speed	Fastest mile			Clear	Cloudy	
Jan. ...	82	63	9.8	67	62	5.5	9.1	8.9	10.1
Feb. ...	78	59	10.5	63	64	5.7	7.5	8.1	9.4
Mar. ...	73	58	11.5	59	68	5.9	7.3	9.6	9.0
Apr. ...	70	57	12.1	40	66	6.2	5.5	10.6	9.4
May	67	54	12.1	35	68	6.0	6.5	9.4	7.3
June ...	67	53	12.8	39	70	5.7	5.5	7.1	6.0
July ...	68	52	13.5	34	73	5.3	7.5	5.4	7.5
Aug	68	53	13.2	52	75	5.3	8.0	6.4	6.5
Sept. ..	68	52	11.6	36	75	5.2	8.2	5.9	7.0
Oct. ...	69	55	10.8	40	68	5.6	7.5	8.4	8.9
Nov. ...	74	59	10.9	65	61	5.7	7.1	9.2	9.2
Dec. ...	79	61	10.7	59	58	5.6	8.2	9.6	10.2
Ann. ...	72	56	11.6	67	67	5.6	87.8	98.5	100.5

T Trace amount.

1/ For periods October 1962 through December 1964 and September 1971 through December 1984.

2/ Data for 1963, 1964, and 1972-1984.

3/ Sky cover is expressed in a range of 0 for no clouds or obscuring phenomena to 10 for complete sky cover.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, Local Climatological Data, Annual Summary With Comparative Data, Honolulu, 1984.

Table 160.-- CLIMATIC DATA FOR THE PERIOD OF RECORD

Subject	Date	Place	Magnitude
Long-term averages:			
Lowest monthly average minimum temp. (°F.)	February	Mauna Kea summit	23.5
Lowest monthly average daily temp. (°F.)	February	Mauna Kea summit	31.3
Highest monthly average maximum temp. (°F.)	September	Kawaihae 1/	91.9
Highest monthly average daily temp. (°F.)	September	Kawaihae 1/	80.8
Lowest average annual rainfall (inches)		Kawaihae	8.7
Highest average annual rainfall (inches)		Waialeale	451
Single events:			
Lowest temperature of record (°F.)	Jan. 20, 1970	Mauna Kea summit 2/	1.4
Highest temperature of record (°F.)	April 27, 1931	Pahala	100
Lowest annual rainfall of record (inches)	1953	Kawaihae	0.2
Highest annual rainfall of record (inches)	1982	Waialeale	666
Highest wind speed of record (m.p.h.)	Nov. 23, 1982	Makahuena Pt. 3/	117

1/ Puukohola Heiau National Historical Site, Kawaihae, Hawaii.

2/ Recorded by Dr. Alfred Woodcock 60 meters inside the Mauna Kea summit cone, at 6:50 a.m. The rim at that time had a temperature of 39° F.

3/ Makahuena Point Coast Guard Station, Poipu, Kauai.

Source: U.S. Department of Commerce, National Weather Service, Pacific Region, data supplied March 14, 1973; Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, data supplied August 5, 1985.

Table 161.-- CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT: ANNUALLY, 1974 TO 1984

Year	Average temperature (°F)			Extreme temp. (°F)		Precipitation (inches)
	Annual	Coolest month	Warmest month	Lowest	Highest	
1974 ...	77.5	74.0	81.2	58	92	24.02
1975 ...	76.2	72.4	80.1	56	90	24.39
1976 ...	76.8	72.0	80.8	53	91	12.90
1977 ...	78.2	73.7	82.2	59	92	12.36
1978 ...	76.8	72.4	80.5	57	91	25.05
1979 ...	77.0	69.9	81.1	57	93	16.93
1980 ...	77.5	71.9	81.6	56	91	26.90
1981 ...	77.1	73.2	80.7	53	90	13.41
1982 ...	76.9	71.7	81.4	56	92	34.92
1983 ...	77.2	71.3	82.4	53	92	5.03
1984 ...	78.1	74.1	81.7	57	94	17.08

Year	Relative humidity (percent)		Wind speed (miles/hour)		Percent of possible sunshine	Days with precipitation .01 inch or more
	8 A.M.	2 P.M.	Annual average	Fastest mile 1/		
1974 ...	73	58	10.9	34	61	118
1975 ...	72	56	12.2	36	62	82
1976 ...	64	52	11.5	38	60	105
1977 ...	71	55	12.2	37	68	81
1978 ...	74	58	11.9	34	69	90
1979 ...	74	57	11.4	34	68	89
1980 ...	75	59	11.9	35	69	115
1981 ...	76	59	10.7	30	72	97
1982 ...	73	59	10.4	46	56	124
1983 ...	75	52	9.8	23	64	78
1984 ...	72	53	10.2	40	71	81

1/ 1984 figure refers to peak gust.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, *Local Climatological Data, Annual Summary With Comparative Data, Honolulu, Hawaii* (annual).

Table 162.-- CLIMATIC NORMALS, MEANS, AND EXTREMES FOR HILO, KAHULUI, HONOLULU, AND LIHUE AIRPORTS

Subject	Hilo	Kahului	Honolulu	Lihue
Normal temperatures (^{o}F.):				
Daily maximum	81.2	83.8	84.2	81.1
Daily minimum	65.9	67.2	69.7	69.3
Monthly: Coolest month	71.1	71.5	72.6	71.2
Warmest month	75.8	79.2	81.0	79.1
Annual	73.5	75.5	77.0	75.2
Extreme temperatures (^{o}F.):				
Record highest	94	96	94	90
Record lowest	53	48	53	50
Normal degree days, base 65^{o}F.:				
Heating	-	-	-	-
Cooling	3,134	3,851	4,389	3,758
Precipitation (inches):				
Normal	128.15	19.85	23.47	44.02
Maximum monthly	50.82	14.46	20.79	22.91
Minimum monthly	0.28	0.00	T	T
Relative humidity (percent):				
8 A.M.	80	74	72	78
2 P.M.	68	57	56	66
Wind speed (m.p.h.):				
Mean	7.1	12.8	11.6	11.9
Fastest mile 1/	29	44	67	65
Percent of possible sunshine	41	69	67	56
Mean number of days:				
Clear	35.4	130.2	87.8	52.7
Partly cloudy	128.5	145.5	178.9	179.5
Cloudy	201.3	89.5	98.5	133.1
Precipitation .01 inch or more	279.4	96.7	100.5	202.3

T Trace amount.

1/ Hilo and Lihue data refer to fastest observation, 1 minute.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, *Local Climatological Data, Annual Summary with Comparative Data, 1984* for Hilo, Kahului, Honolulu, and Hilo.

Table 163.-- RAINFALL AT SPECIFIED LOCATIONS: ANNUALLY, 1974 TO 1984

[In inches]

Year	Hawaii			Maui		
	Hilo Airport	Wai- mea 1/	Kona Village	Kahului Airport	Kihei	Lahaina
1974 ...	112.92	22.84	8.10	18.68	14.97	13.01
1975 ...	99.93	12.35	15.64	13.74	10.63	12.19
1976 ...	114.67	11.10	7.04	12.83	8.84	8.86
1977 ...	90.38	5.42	3.40	11.50	7.88	8.28
1978 ...	119.09	14.83	8.68	19.15	9.91	11.97
1979 ...	158.77	29.23	16.00	26.82	21.32	20.85
1980 ...	127.74	28.31	16.90	27.87	20.27	22.69
1981 ...	89.91	13.30	7.02	12.85	9.72	8.13
1982 ...	170.36	56.29	26.88	34.04	29.11	34.36
1983 ...	68.09	12.95	8.51	13.05	8.60	9.70
1984 ...	100.08	8.87	8.15	8.56	5.64	6.30

Year	Oahu			Kauai		
	Waikiki	Univ. of Hawaii	Nuuanu Res. 4	Koloa	Lihue Airport	Prince- ville
1974 ...	24.51	44.62	130.94	86.35	45.60	130.40
1975 ...	25.98	39.25	101.42	49.91	35.52	62.36
1976 ...	13.59	26.83	86.44	62.60	32.83	109.34
1977 ...	15.73	32.83	88.96	52.51	40.34	84.55
1978 ...	27.18	41.56	124.42	70.64	39.11	130.82
1979 ...	26.22	46.74	111.56	55.98	37.09	93.19
1980 ...	28.50	48.52	140.70	78.78	54.64	130.55
1981 ...	19.09	31.71	112.46	66.26	38.14	130.72
1982 ...	39.96	57.98	168.16	96.75	74.40	241.22
1983 ...	9.80	19.77	74.32	50.69	16.40	46.93
1984 ...	19.35	33.13	71.32	48.82	30.12	71.58

1/ Lalamilo Field Office.

Source: U.S. Department of Commerce, National Climatic Data Center, Local Climatological Data, Annual Summary with Comparative Data, 1984 for Hilo, Kahului, and Lihue and Climatological Data Annual Summary, Hawaii and Pacific (annual); U.S. Department of Commerce, National Weather Service, Pacific Region, records; and Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, records.

Table 164.-- TRADE WINDS, HIGH SURF, AND TEMPERATURES IN HAWAIIAN WATERS, BY MONTHS

Month	Trade wind frequency 1/ (percent)	Expected days of strong trade winds 2/	Highest surf 3/ (average number of days)		Water temperature (°F.)	
			Flat or 1 foot	6 feet or more	Mean maximum	Mean minimum
Jan. ...	42	9	1	19	74.7	71.1
Feb. ...	55	7	1	16	75.6	70.3
March ..	61	10	1	12	76.5	71.8
April ..	74	10	3	7	77.7	73.0
May	86	7	8	3	79.5	74.7
June ...	91	7	15	-	81.1	77.7
July ...	95	10	16	-	81.1	78.3
Aug. ...	94	7	15	-	81.9	79.2
Sept. ..	83	4	10	2	81.9	78.4
Oct. ...	71	4	1	12	81.1	77.2
Nov. ...	64	8	-	19	79.3	74.5
Dec. ...	57	9	-	20	75.9	71.4
Ann. ...	65	92	71	110	78.6	74.8

1/ Mean monthly frequency of trade winds in Hawaiian waters.

2/ Expected number of hazardous days in Hawaiian waters due to strong trade winds.

3/ Observations at Sunset Beach, Oahu. Annual averages were: flat or 1 foot, 71 days; 2-5 feet, 184 days; 6-10 feet, 71 days; 11-15 feet, 26 days; 16 feet or higher, 13 days.

4/ Observations at Kaneohe, Oahu. The mean ranged from 73.0 in January and February to 80.2 in August. Absolute maximums and minimums were respectively 84 (in July, August, and October) and 68 (December and February).

Source: Paul Haraguchi, Weather in Hawaiian Waters (Honolulu: Pacific Weather, Inc., 1979), pages 14, 22, 56, and 74.

Table 165.-- MAJOR HURRICANES: 1950 TO 1985

[Complete to August 8, 1985]

Hurricane name	Date 1/	Islands most affected	Maximum winds ashore (m.p.h.)		Deaths	Property damage (million dollars)
			Sustained	Gusts		
Hiki	Aug. 12-16, 1950	Kauai	68	(NA)	1	0.200
Della	Sept. 1-17, 1957	French Frig. Shoals	82	109	-	Minor
Nina	Nov. 29-Dec. 7, 1957	Kauai	92	(NA)	4	1.056
Dot	Aug. 1-8, 1959	Kauai	81	103	-	5.5+
Fico	July 17-28, 1978	Hawaii	(NA)	58+	-	0.188
Iwa	Nov. 19-25, 1982	Kauai, Oahu	65	117	-	234

NA Not available.

1/ Total duration, including period outside Hawaiian waters.

Source: Samuel L. Shaw, A History of Tropical Cyclones in the Central North Pacific and the Hawaiian Islands, 1832-1979 (U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Weather Service, September 1981); Hawaii State Department of Defense, Civil Defense Division, Catalogue of Natural and Man-Caused Incidents and Disasters in the Hawaiian Islands (December 1978); The Governor's Ad Hoc Committee on the Economic Impact of Hurricane Iwa, Hurricane Iwa's Economic Impact on Hawaii (January 1983); "The History of Hurricanes in Hawaii," Honolulu Star-Bulletin, July 18, 1983, p. A-5; Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, letter dated December 5, 1983.

Table 166.-- SUNRISE, SUNSET, AND HOURS OF DAYLIGHT AT HILO, HONOLULU, AND LIHUE, FOR SELECTED DATES

[Hawaiian Standard Time]

Subject	March 21	June 21	Sept. 23	Dec. 22
Sunrise (A.M.):				
Hilo	6:24	5:42	6:09	6:51
Honolulu	6:35	5:50	6:21	7:05
Lihue	6:41	5:55	6:26	7:12
Sunset (P.M.):				
Hilo	6:32	7:02	6:16	5:47
Honolulu	6:43	7:16	6:27	5:55
Lihue	6:49	7:23	6:33	6:00
Hours of daylight:				
Hilo	12:08	13:20	12:07	10:56
Honolulu	12:08	13:26	12:06	10:50
Lihue	12:08	13:28	12:07	10:48

Source: Nautical Almanac Office, U.S. Naval Observatory, Tables of Sunrise and Sunset, No. 1083 and 1084 and records.

Table 167.-- HAWAII AUDUBON SOCIETY BIRD COUNT OF THE HONOLULU AREA, BY TYPE OF SPECIES: DECEMBER 16, 1984

Type of species 1/	Number of species	Number of individuals
All species	46	25,809
Endemic	6	309
Indigenous	6	729
Introduced	26	23,508
Migratory	7	1,700

1/ For definitions, see following table, footnote 1.

Source: Hawaii Audubon Society, "Honolulu Christmas Bird Count, 1984," 'Elepaio, March 1985, pp. 82-85.

Table 168.-- HAWAII AUDUBON SOCIETY BIRD COUNTS OF THE HONOLULU AREA: 1980 TO 1984

[Counts are made in late December, in a circle, 15 miles in diameter, centered near Nuuanu Pali]

Species 1/	1980 2/	1981 2/	1982	1983	1984
All species:					
Species	44	48	45	46	46
Individual birds ..	20,226	19,427	16,649	22,279	25,809
Endemic species:					
'Apapane	147	153	68	106	96
Hawaiian Coot	28	28	62	135	40
Hawaiian Stilt	115	92	77	110	87
Oahu 'Amakihi	152	159	65	140	59
Indigenous species:					
Great Frigatebird	615	366	24	37	17
Red-footed Booby	1,132	1,063	425	370	624
Introduced species:					
Cattle Egret	1,072	682	331	384	477
Common Myna	3,577	2,917	2,790	3,080	3,611
House Sparrow	1,684	1,604	1,489	2,518	2,169
Japanese White-eye	1,003	970	1,121	1,706	1,235
Red-vented Bulbul	1,174	1,159	1,199	2,195	2,051
Spotted Dove	1,104	1,393	1,052	1,606	2,650
Zebra (Barred) Dove	2,541	3,694	3,442	3,840	7,624
Migratory species:					
Lesser Golden-Plover ...	1,884	1,621	1,402	1,747	1,359
Ruddy Turnstone	397	361	291	269	295

1/ Separate data are shown for endemic birds averaging more than 25 individuals in 1975-1979, indigenous birds more than 200, introduced birds more than 500, and migratory species and stragglers more than 100. Endemic birds are those peculiar to a particular region, in this case Hawaii, and therefore found nowhere else in the world; indigenous birds are those native to a given region, in this case Hawaii, but with a total range of distribution encompassing a much wider area. The classification is that in Andrew J. Berger, Hawaiian Birdlife (1972).

2/ Including Moku Manu, excluded after 1981. Moku Manu had 4 species and 913 individuals (including 425 Red-footed Boobies and 460 Great Frigatebirds) in 1982, 4 species and 760 individuals in 1983, and 4 species and 545 individuals in 1984.

Source: Hawaii Audubon Society, The 'Elepaio (monthly).

Table 169.-- TREES ALONG STREETS OR IN PARKS UNDER THE JURISDICTION OF THE CITY AND COUNTY OF HONOLULU: 1979 TO 1984

[As of June 30]

Year	Along City and County streets and highways 1/	In City and County parks
1979	104,499	95,600
1980	108,202	95,700
1981	110,975	96,250
1982	113,489	96,296
1983	114,875	96,130
1984	117,133	96,873

1/ Excludes Federal, State, and private thoroughfares.

Source: City and County of Honolulu, Department of Parks and Recreation, data provided February 11, 1985.

Table 170.-- THREATENED, ENDANGERED, AND EXTINCT SPECIES OF NATIVE FAUNA AND FLORA: JUNE 1985

Type of fauna or flora	Native species	Candidate	Threatened	Endangered	Extinct 1/
Mammals	19	-	-	9	-
Reptiles and amphibians ..	4	-	3	1	-
Birds	87	-	1	29	23
Invertebrates	(2/)	150	-	41	88
Plants	2,734	795	-	11	100

1/ Since 1778.

2/ Not known, but nearly 10,000 native species of insects and more than 1,000 native species of land snails have been estimated.

Source: U.S. Department of the Interior, Fish and Wildlife Service records; P. Q. Tomich, Mammals in Hawaii (1969); Robert L. Pyle, "Checklist of Birds of Hawaii," The 'Elepaio, November 1983; correspondence from W. C. Gagné, Entomology Department, Bishop Museum, July 3, 1985; H. St. John, List and Summary of the Flowering Plants in the Hawaiian Islands (1973), p. 519; University of Hawaii Department of Geography, Atlas of Hawaii (1983), pp. 80 and 83.

Section 6

LAND USE AND OWNERSHIP

General statistics on the use, ownership, and tenure of land appear in this section. Information on specific use or ownership categories is given elsewhere: parks in Section 7, agriculture in Section 19, forests in Section 20, and cane land and industrial parks in Section 22.

Out of the 4,112,000 acres in the State, 1,300,000 are in cropland or pastureland. Other major categories include forestland, with 1,473,000 acres, urban and built-up, with 126,000, and miscellaneous nonfarm, with 852,000. On Oahu, land in residential use increased from 22,600 acres in 1969 to 28,100 in 1982; during the same 13-year span, agricultural land declined from 88,900 to 74,700 acres. For the State as a whole, the Land Use Commission has zoned 159,000 acres as urban, 1,969,000 as conservation, 1,974,000 as agricultural, and 10,000 as rural.

Recent data on land ownership indicate that the Federal government owns 8.3 percent of all land, the State and counties own 30.8 percent, and private owners (chiefly large estates) have 60.9 percent. Total Federal holdings reported by the General Services Administration in 1983 came to 691,000 acres, exclusive of leased land (52,000 acres); most of the Federal land was in wildlife, park and military use. The State Department of Hawaiian Home Lands holds about 188,000 acres, divided among 3,332 lessees. Total land parcels in the State as of 1985 numbered 398,000.

Considerable caution is necessary in comparing statistics from different sources on land use, ownership, or tenure. Variations in definitions and survey dates seriously affect comparability in many instances, even where terminology is relatively unambiguous and misinterpretation seems unlikely. An example of such difficulties is the wide range in estimates of Federal land, with totals ranging from 327,000 acres to 691,000.

Tabulations by the U.S. Department of Agriculture and General Services Administration, Hawaii State Department of Hawaiian Home Lands, Department of Land and Natural Resources, Department of Planning and Economic Development, and Land Use Commission, Honolulu Department of Finance, and Honolulu Department of General Planning provided the data for this section. Historical Statistics of Hawaii, Section 12, contains limited information for earlier years. Statistics for the nation as a whole are available in Sections 7, 8, 11 and 24 of the Statistical Abstract of the United States: 1985.

Table 171.-- LAND OWNERSHIP, COVER, OR USE AND TYPES OF WATER AREAS, BY COUNTIES: 1982

[1,000 acres]

Category	State total 1/	City and County of Honolulu 1/	Other counties		
			Hawaii	Kauai	Maui 2/
Total area	4,141.3	397.2	2,582.5	403.0	758.6
Federal land	341.5	51.1	231.9	2.6	55.9
Nonfederal land	3,770.6	330.6	2,349.9	394.0	696.1
Rural land	3,609.6	268.0	2,288.7	379.0	673.9
Cropland	333.2	74.6	85.2	82.3	91.1
Pastureland	974.0	78.1	621.7	48.8	225.4
Rangeland	0.0	0.0	0.0	0.0	0.0
Forest land	1,473.5	104.3	891.7	230.7	246.8
Minor land cover/uses 3/ ..	828.9	11.0	690.1	17.2	110.6
Urban and built-up land	125.9	56.9	42.2	9.8	17.0
Rural transportation	22.8	4.7	10.3	3.1	4.7
Small water areas	12.3	1.0	8.7	2.1	0.5
Water bodies 4/	2.2	0.5	1.3	0.3	0.1
Perennial streams 5/	10.1	0.5	7.4	1.8	0.4
Census water 6/	29.2	15.5	0.7	6.4	6.6

1/ Excludes the Northwestern Hawaiian Islands, legally part of the City and County of Honolulu.

2/ Includes Kalawao County.

3/ Includes farmsteads and ranch headquarters (State total, 3.5), other land in farms (5.6), mines, quarries, and pits (0.0), small built-up areas (2.2), and other rural lands (817.6, of which 687.7 were in Hawaii County).

4/ Includes a State total of 0.8 in bodies less than 2 acres and 1.4 in bodies of 2 to 40 acres.

5/ Includes a State total of 4.1 in streams less than 66 feet wide and 6.0 in streams 66 to 660 feet wide.

6/ Larger water bodies not included in land area totals, as measured by the Bureau of the Census (Pearl Harbor, Kaneohe Bay, etc.).

Source: U.S. Department of Agriculture, Soil Conservation Service, 1982 National Resources Inventory, tables 1c, 2c, 7c, and 8c for Hawaii (unpublished).

Table 172.-- LAND USE AND STRUCTURAL CHARACTERISTICS OF OAHU: 1981 AND 1982

Subject	Dec. 1981: Oahu total	Dec. 1982		
		Oahu total	Honolulu District	Rest of Oahu
LAND USE (IN ACRES)				
All existing uses	370,444	373,498	51,645	321,853
Single family	25,194	25,622	8,304	17,318
Multi-family	2,452	2,489	1,094	1,395
Industrial	6,818	6,929	3,004	3,925
Commercial	4,316	4,409	1,764	2,645
Hotel	231	223	111	112
Agriculture	74,744	74,703	303	74,400
Usable vacant	38,248	37,596	3,175	34,421
Other	218,441	221,527	33,890	187,637
STRUCTURES BY YEAR BUILT 1/				
All structures	139,671	141,249	63,076	78,173
Before 1930	8,810	8,516	6,503	2,013
1930 to 1939	10,230	10,104	6,401	3,703
1940 to 1949	16,787	16,555	9,407	7,148
1950 to 1959	31,172	31,085	15,043	16,042
1960 to 1969	41,794	41,725	15,837	25,888
1970 to 1979	28,125	28,295	8,247	20,048
1980 and later	2,589	3,540	1,051	2,489
Not reported	164	1,429	587	842
DWELLING UNITS BY TYPE 1/				
All dwelling units	239,061	243,461	140,720	102,741
Single family and duplex	126,996	129,967	55,769	74,198
Low density multi-family	10,715	10,779	1,015	9,764
High density multi-family	101,350	102,715	83,936	18,779

1/ Data exclude structures on military bases.

Source: City and County of Honolulu, Department of General Planning, records.

Table 173.-- LAND PARCELS, BY COUNTIES: 1984 AND 1985

[As of January 1]

Year	State total	City and County of Honolulu	County of Maui	County of Hawaii	County of Kauai
1984	390,912	204,053	45,828	119,128	21,903
1985	398,148	208,466	47,076	120,177	22,429

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, records.

Table 174.-- ACREAGE OF LAND USE CLASSES, BY COUNTIES: MAY 2, 1985

[Based on land use classifications used for real property assessment purposes. Data exclude public streets and highways and other areas not in parcels of record]

Land use class 1/	State total	City and County of Honolulu	County of Maui	County of Hawaii	County of Kauai
All uses 2/	4,046,392	372,514	752,968	2,521,807	399,103
Improved residential ...	60,330	38,220	6,180	11,819	4,111
Apartment	5,902	2,398	1,115	1,802	587
Commercial	5,014	2,653	629	1,270	462
Industrial	19,936	10,419	1,751	6,356	1,410
Agricultural	1,947,193	135,949	407,482	1,199,468	204,294
Conservation	1,946,396	148,304	327,650	1,286,189	184,253
Hotel and resort	1,699	209	827	437	226
Unimproved residential .	59,922	34,363	7,334	14,467	3,758

1/ Based on "Pitt codes" as established by the "Pittsburgh Law" of differential tax rates for real property assessment and taxation as specified in Sec. 246-10, Hawaii Revised Statutes, 1983 Supplement.

2/ Because of excluded categories, these totals differ from figures for total area shown elsewhere in the *Data Book*.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, printouts dated April 30, 1985 and May 2, 1985.

Table 175.-- ESTIMATED ACREAGE OF LAND USE DISTRICTS: 1964 TO 1985

[Total acreage, including inland water, as classified by the Hawaii State Land Use Commission under the provisions of Chapter 205, Hawaii Revised Statutes. All data are approximate]

Year and month	Total area 1/	Classification by State Land Use Commission 2/			
		Urban	Conservation	Agricultural	Rural
1964: August ...	4,111,500	117,800	1,862,600	2,124,400	6,700
1969: August ...	4,111,500	140,163	2,009,087	1,955,875	6,375
1974: March	4,111,500	147,472	1,986,429	1,968,727	8,872
1975: February .	4,111,500	148,921	1,976,996	1,976,695	8,888
1977: January ..	4,111,500	149,263	1,976,996	1,976,327	8,914
1978: January ..	4,111,500	151,012	1,976,931	1,974,340	9,217
1979: January ..	4,111,500	151,929	1,976,106	1,974,230	9,235
1980: January ..	4,111,500	152,199	1,975,865	1,974,196	9,240
1981: January ..	4,111,500	154,319	1,975,836	1,972,104	9,241
1982: January ..	4,111,500	154,726	1,975,672	1,971,886	9,216
1983: January ..	4,112,388	156,413	1,975,473	1,971,279	9,223
1984: January ..	4,112,388	156,568	1,975,473	1,970,146	10,201
1985: January ..	4,112,388	158,620	1,969,351	1,974,236	10,181
ISLANDS: 1985					
Hawaii	2,573,400	37,182	1,303,016	1,232,583	619
Maui	465,800	16,667	193,679	251,717	3,737
Kahoolawe	28,800	-	28,800	-	-
Lanai	90,500	2,338	38,203	47,239	2,720
Molokai	165,800	2,503	49,768	111,657	1,872
Oahu	386,188	88,202	154,853	143,133	-
Kauai	353,900	11,728	198,732	142,207	1,233
Niihau	45,700	-	-	45,700	-
Kaula and Lehua	400	-	400	-	-
Other islands 3/	1,900	-	1,900	-	-

1/ These totals differ somewhat from the official figures based on measurements by the Geography Division of the U.S. Bureau of the Census, cited in Section 5. The increase in the 1983 total area reflects additions to the Urban District on Oahu at Honolulu International Airport (Reef runway and South Ramp refill) created from former submerged lands.

2/ For definitions, see Hawaii Revised Statutes, 1976 Replacement, Section 205-2.

3/ The Northwestern Hawaiian Islands, from Nihoa to Kure Atoll, excluding Midway.

Source: Hawaii State Department of Planning and Economic Development, Land Use Commission, data supplied January 28, 1985.

Table 176.-- LAND OWNERSHIP, BY ISLANDS: SPRING 1985

[In acres]

Island	All land 1/	Land owned by government 2/			Privately owned land 3/
		Federal	State	Counties	
State total 4/	3,936,878	327,406	1,194,852	15,067	2,399,551
Percent	100.0	8.3	30.4	0.4	60.9
Hawaii	2,498,851	218,550	841,572	1,234	1,437,494
Maui	401,536	26,872	86,818	1,249	286,597
Kahoolawe	28,800	28,800	-	-	-
Molokini	19	19	-	-	-
Lanai	88,984	5	120	24	88,834
Molokai	170,026	133	47,462	248	122,182
Oahu	349,559	49,596	68,012	11,575	220,376
Kauai	351,886	3,175	150,612	737	197,363
Niihau	46,705	-	-	-	46,705
Lehua and Kaula	512	256	256	-	-

1/ Because of the omission of public thoroughfares and for other reasons, totals by island may differ considerably from official area estimates in other tables in this volume.

2/ State land ceded by presidential proclamation or governor's executive order to the federal government appears in most cases to have been classified for this table as federal land, even though title to it technically remains with the state. Land ceded by the state to the counties, in contrast, has probably been classified as state land. For both types of ceded land, treatment may have varied from parcel to parcel.

3/ For data on the leasehold status of privately owned land, see the two following tables.

4/ Data exclude the Northwestern Hawaiian Islands (1,722 acres).

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, records.

Table 177.-- LAND IN HAWAII OWNED BY LARGE AND SMALL LANDOWNERS: 1964, 1983, AND 1984

Ownership	1964	1983	1984
Land area of State (acres) 1/	4,105,600	3,930,629	3,936,878
Owned by government	1,958,224	1,521,558	1,537,325
Owned privately	2,147,376	2,409,071	2,399,551
Six large owners 2/	1,121,846	942,086	941,586
Bernice P. Bishop Estate	369,700	341,379	341,138
Richard S. Smart (Parker Ranch) 3/	185,610	139,301	139,301
Castle and Cooke, Inc.	154,759	149,681	150,000
C. Brewer and Company, Ltd.	145,147	95,100	94,688
Samuel M. Damon Estate	143,842	121,659	121,659
Alexander and Baldwin, Inc.	122,788	94,966	94,800
All others	1,025,530	1,466,985	1,457,965
Percent of total land area	100.0	100.0	100.0
Owned by government	47.7	38.7	39.0
Owned privately	52.3	61.3	61.0
Six large owners	27.3	24.0	23.9
All others	25.0	37.3	37.0
Percent of privately owned land	100.0	100.0	100.0
Six large owners	52.2	39.1	39.2
All others	47.8	60.9	60.8

1/ Because of the omission of public thoroughfares and for other reasons, totals may vary from year to year and also may differ from official area estimates in other tables of this volume.

2/ Some of these figures are not exact accountings but are the landowners' best estimates.

3/ The total size of the Parker Ranch in 1984, including leased land, was 225,000 acres.

Source: Legislative Reference Bureau, Public Land Policy in Hawaii: Major Landowners, Report No. 3 (1967), p. 99; City and County of Honolulu, Department of Finance, Real Property Assessment Division, records; DPED survey of six landowners listed.

Table 178.-- REAL PROPERTY OWNED BY OR LEASED TO THE FEDERAL GOVERNMENT: 1981 TO 1983

Subject	Sept. 30, 1981 1/	Sept. 30, 1982 2/	Sept. 30, 1983
OWNED			
Number of installations	310	310	304
Land area, total (acres)	690,752.7	700,653.7	691,053.6
Urban	88,433.9	88,568.5	86,481.0
Rural	602,318.8	612,085.2	604,572.6
Number of buildings	13,769	14,627	15,032
Cost, total ($1,000) 3/	1,598,942	1,759,616	1,741,836
Land	76,379	76,879	46,839
Buildings	892,349	998,906	1,032,470
Structures and facilities	630,214	683,831	662,527
Predominant usage (acres):			
Agriculture and grazing	-	-	-
Forest and wildlife	255,620.2	255,620.2	255,620.2
Parks and historic sites	229,172.5	238,832.1	238,854.3
Power development and distribution	-	-	-
Reclamation and irrigation	-	-	-
Office building locations	53.3	54.8	53.7
Military, excluding airfields	119,036.0	121,069.2	110,023.8
Airfields	6,224.1	6,224.1	6,136.8
Harbor and port facilities	23.6	23.6	23.6
Flood control and navigation	1,460.9	1,457.5	1,457.5
Vacant	3.0	3.0	3.0
Institutional	359.5	358.0	358.0
Housing	84.2	84.2	84.2
Storage	836.0	833.1	833.1
Industrial	2,261.6	2,387.9	1,978.7
Research and development	7.7	7.7	2.5
Other land	75,610.1	73,698.3	75,624.2
LEASED			
Number of leases	237	275	294
Land area, total (acres)	50,064.4	50,527.7	51,852.3
Urban	147.2	219.6	209.5
Rural	49,917.2	50,308.1	51,642.8
Number of building locations	152	163	179
Floor area of buildings (sq. ft.)	299,771	308,839	318,446
Annual rental ($1,000)	1,675	1,882	2,398

Footnote and source on next page.

Table 178.-- REAL PROPERTY OWNED BY OR LEASED TO THE FEDERAL GOVERNMENT: 1981 TO 1983 -- Con.

[1] Number of installations corrected from figure published in source and cited in Data Book 1983, table 176.

[2] Total, rural, and military acreage corrected from figures published in source and cited in Data Book 1983, table 176.

[3] At time of acquisition. Includes estimated equivalent cost of properties acquired through donation, exchange, devise, forfeiture, or judicial process.

Source: General Services Administration, Summary Report on Real Property Owned by the United States Throughout the World (annual) and Summary Report on Real Property Leased to the United States Throughout the World (annual). The 1981 and 1982 data were corrected by GSA on March 23, 1984.

Table 179.-- DEPARTMENT OF HAWAIIAN HOME LANDS ACREAGE, LESSEES, AND APPLICANTS, BY ISLANDS: JUNE 30, 1984

[The Department of Hawaiian Home Lands administers land set aside for the benefit of qualified native Hawaiians, who receive homestead leases and financial assistance from the Department]

Island	Acreage		Lessees		Applicant list	
	Total	In homestead use	Farm and ranch	Homestead	Farm and ranch	Homestead
State total ..	187,597	27,439	475	2,857	1,453	7,050
Hawaii	107,981	18,647	207	591	1,004	1,412
Maui	28,995	17	-	89	72	579
Molokai	25,401	7,788	263	115	195	334
Oahu	6,651	439	2	1,874	7	4,251
Kauai	18,569	548	3	188	175	474

Source: Hawaii State Department of Hawaiian Home Lands, 'Aina Ho'opulapula. 1983-'84 Annual Report.

Table 180.-- STATE PUBLIC AND SET-ASIDE LAND INVENTORY, BY COUNTIES: JULY 1985

[In thousands of acres. Excludes highways and roads.]

Type of document	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
All types	1,399.3	64.2	973.0	153.9	208.2
Public lands	414.6	15.8	320.0	38.4	40.4
General lease 1/	236.8	5.9	198.2	23.3	9.6
Revocable permit 2/	99.4	2.2	63.0	12.0	22.3
Unencumbered lands 3/...	78.0	7.7	58.7	3.1	8.5
Lands set aside to other government agencies	792.0	41.9	545.6	97.0	107.5
Executive order	230.8	12.7	184.7	24.0	9.4
Governor's proclamation	561.2	29.2	360.9	73.0	98.1
Dept. of Hawaiian Home Lands	189.8	4.8	106.8	18.0	60.1
University of Hawaii	1.7	0.7	0.5	0.4	0.1
Hawaii Housing Authority .	1.3	1.0	0.1	0.0	0.1

1/ Long-term leases. Mostly agricultural and pasture land.
2/ Month-to-month leases. Mostly agricultural and pasture land.
3/ Parcels with no documents and not in use.
Source: Hawaii State Department of Land and Natural Resources, Land Management Division, records.

Section 7

RECREATION AND TOURISM

Statistics on tourism, recreation, sports, museums, parks, pets, and the performing arts appear in this section. Additional information on recreational and resort land use is given in Section 6; on transportation, in Section 18; and on hotels and hotel workers, in Sections 12, 13, 15 and 23.

Approximately 4,856,000 visitors stayed overnight or longer in Hawaii during 1984, compared with 2,786,000 in 1974 and only 564,000 in 1964. The average number present at any given time during 1984 was 119,000. Total visitor expenditures (exclusive of trans-Pacific fares) in 1984 amounted to $4.6 billion, compared with $1.2 billion a decade earlier. The 1984 visitor total included 3.2 million from other States, 330,000 from Canada, and 816,000 from Japan. Expenditures per visitor day in 1983 averaged $85.88 for westbound visitors and $227.32 for the Japanese. Visitor-related spending in 1983 resulted in tax revenues of $477 million and generated 164,500 jobs.

Both visitors and residents have access to a wide range of recreational and cultural facilities. The State has seven National parks and similar areas, 74 State parks, 626 County parks, 57 golf courses, 259 public tennis courts, 2,033 small-boat moorages, 1,600 recognized surfing sites, and 24.4 miles of safe, sandy, accessible beach. Recreational, scenic and cultural facilities reporting more than two million annual visitors each include Waikiki Beach, the National Memorial Cemetery of the Pacific, Wailua River State Park, and Hawaii Volcanoes National Park. Total visits to 48 museums, state monuments and similar attractions in 1984 numbered 12 million. About 334,000 Hawaii residents traveled to the Mainland in 1984. Thirteen theatrical groups on Oahu reported 1,734 performances of 695 productions for the 1983-1984 season, with a combined audience of 1,060,000. During the same period, the Honolulu Symphony Orchestra gave 133 concerts, with a total attendance of 195,000. Professional baseball drew 145,000 fans in 1984, and during the 1983-1984 school year, attendance at UH-Manoa varsity baseball, basketball and football home games exceeded 502,000.

Information on recreation and tourism is issued periodically by the Hawaii Visitors Bureau (particularly in its Annual Research Report), the State Parks Division of the Department of Land and Natural Resources, the Hawaii State Department of Planning and Economic Development, U.S. National Park Service, U.S. Passport Office, County park and recreation departments, and other organizations. Long-term trends are summarized in Historical Statistics of Hawaii, Section 11. National statistics are given in Section 8 of Statistical Abstract of the United States: 1985.

Table 181.-- MODE AND DIRECTION OF TRAVEL OF PASSENGERS ARRIVING IN HAWAII: 1979 TO 1984

Year	All arriving passengers	Mode of travel		Direction of travel	
		Air	Surface	Westbound	Eastbound or northbound
1979	5,291,333	5,283,771	7,562	3,839,041	1,452,292
1980	5,380,383	5,380,383	-	3,861,059	1,519,324
1981	5,305,809	5,305,809	-	3,780,383	1,525,426
1982	5,580,240	5,580,240	-	4,078,360	1,501,880
1983	5,546,540	5,546,540	-	4,098,740	1,447,800
1984	6,107,730	6,107,730	-	4,543,890	1,563,840

Source: Hawaii Visitors Bureau, 1984 Annual Research Report, p. 4.

Table 182.-- RESIDENCE STATUS OF WESTBOUND PASSENGERS ARRIVING IN HAWAII: 1979 TO 1984

[Based on a 20-percent sample through 1983 and a 10-percent sample for 1984]

Year	All westbound passengers	Visitors destined to Hawaii	Visitors destined beyond Hawaii		Returning residents	Intended residents
			Overnight or longer	In transit		
1979 1/ .	3,839,041	2,805,813	333,642	546,113	130,914	22,559
1980 1/ .	3,861,059	2,718,863	327,269	603,206	197,799	13,922
1981	3,780,383	2,611,142	363,649	556,730	230,728	18,134
1982	4,078,360	2,896,255	382,270	488,725	290,040	21,070
1983	4,098,740	3,086,995	309,120	444,180	236,725	21,720
1984	4,543,890	3,385,880	335,500	461,820	333,640	27,050

1/ Decline in returning and intended residents after 1977 probably reflects increased nonresponse rates resulting from revised questionnaire format introduced in July 1978.

Source: Hawaii Visitors Bureau, 1984 Annual Research Report, p. 6.

Table 183.-- VISITOR ARRIVALS: 1921 TO 1964

[Visitors staying overnight or longer. Data before 1946 exclude steerage passengers and those aboard government ships and aircraft. Figures for 1946 and later years limited to passengers aboard civilian carriers. Data for 1951-1964 not adjusted for survey nonresponse, which was extremely small during those years; for adjusted estimates, including annual estimates back to 1800, see L.J. Crampon, Hawaii's Visitor Industry, Its Growth and Development (School of Travel Industry Management, University of Hawaii, 1976; unpublished), pp. 316-317]

Year	Visitors	Year	Visitors	Year	Visitors
1921	8,000	1935	19,933	1952	60,539
1922	9,676	1936	22,199	1953	80,346
1923	12,021	1937	21,987	1954	91,289
1924	12,468	1938	23,043	1955	109,798
1925	15,193	1939	24,390	1956	133,815
1926	16,762	1940	25,373	1957	168,829
1927	17,451	1941	31,846	1958	171,588
1928	19,980	1942-45 .	(1/)	1959	243,216
1929	22,190	1946	15,000	1960	296,517
1930	18,651	1947	25,000	1961	319,807
1931	15,780	1948	36,397	1962	362,145
1932	10,370	1949	34,386	1963	429,140
1933	10,111	1950	46,593	1964 2/ .	508,870
1934	16,161	1951	51,565		

1/ War years; visitor industry suspended.

2/ Figure adjusted for nonresponse was 563,925.

Source: 1921-1950 from Robert C. Schmitt, Origins of the Hawaii Visitors Bureau Research Program, 1911-1950 (University of Hawaii at Manoa, School of Travel Industry Management and Social Science Research Institute, Tourism Research Publications, Occasional Paper No. 7, 1984), pp. 17 and 19; 1951-1964 from Hawaii Visitors Bureau, 1964 Annual Program and Research Report, p. 13.

Table 184.-- VISITOR ARRIVALS AND AVERAGE VISITOR CENSUS: 1964 TO 1984

Year	Visitors staying overnight or longer			Average number present		
	Total	West-bound 1/	Other	Total	West-bound 1/	Other
1964	563,925	460,290	103,635	16,037	14,901	1,136
1965	686,928	567,218	119,710	17,369	16,057	1,312
1966	835,456	686,886	148,570	20,918	19,271	1,647
1967	1,124,818	893,103	231,715	27,630	24,898	2,732
1968	1,314,571	1,015,844	298,727	32,335	28,784	3,551
1969	1,527,012	1,181,029	345,983	37,198	33,088	4,110
1970	1,746,970	1,326,135	420,835	36,943	32,028	4,915
1971	1,818,944	1,430,325	388,619	40,889	36,504	4,385
1972	2,244,377	1,782,737	461,640	50,143	45,098	5,045
1973	2,630,952	2,067,861	563,091	59,578	53,407	6,171
1974	2,786,489	2,184,620	601,869	63,535	56,939	6,596
1975	2,829,105	2,207,417	621,688	66,308	59,495	6,813
1976	3,220,151	2,551,601	668,550	75,532	68,225	7,307
1977	3,433,667	2,763,312	670,355	83,030	75,684	7,346
1978	3,670,309	3,030,999	639,310	92,034	85,028	7,006
1979	3,960,531	3,139,455	821,076	98,676	89,678	8,998
1980	3,934,504	3,046,132	888,372	96,497	86,788	9,709
1981	3,934,623	2,974,791	959,832	95,968	85,449	10,519
1982	4,242,925	3,278,525	964,400	105,310	94,740	10,570
1983	4,368,105	3,396,115	971,990	108,045	97,395	10,650
1984	4,855,580	3,721,380	1,134,200	118,660	106,260	12,400

1/ Arriving from the Mainland United States or Canada. Based on a 20-percent sample through 1983 and a 10-percent sample for 1984.

Source: Hawaii Visitors Bureau, Annual Research Report (annual) and records.

Table 185.-- VISITOR ARRIVALS, BY BROAD TIME PERIODS: 1800 TO 1984

[Limited to visitors staying overnight or longer; excludes ship and aircraft officers and crews, armed forces arriving aboard army and naval transports and aircraft, and passengers making brief layovers. Data prior to 1921 are rough approximations based on fragmentary information]

Period	Years	Visitor arrivals (1,000)		Cumulative arrivals	
		Total	Annual average	Number (1,000)	Percent 1/
1800-1849	50	5	0.1	5	0.01
1850-1899	50	80	1.6	85	0.1
1900-1920	21	95	4.5	180	0.3
1921-1941	21	374	17.8	554	0.9
1942-1945	4	-	-	554	0.9
1946-1959	14	1,268	90.6	1,822	3.1
1960-1969	10	7,460	746.0	9,282	15.7
1970-1979	10	28,341	2,834.1	37,623	63.8
1980-1984	5	21,336	4,267.2	58,959	100.0

1/ Percent of cumulative total through 1984.

Source: 1800-1920 from unpublished speculative estimates by the Hawaii State Department of Planning and Economic Development; 1921-1984 from present report, tables 183 and 184.

Table 186.-- VISITOR DAYS, BY DIRECTION OF TRAVEL: 1983 AND 1984

[Based on a 20-percent sample for 1983 and a 10-percent sample for 1984]

Year	Total	Westbound	Eastbound and northbound
1983	39,437,410	35,549,450	3,887,960
1984	43,426,840	38,890,040	4,536,800

Source: Hawaii Visitors Bureau, 1984 Annual Research Report, p. 5.

Table 187.-- RESIDENCE OF OVERNIGHT AND LONGER VISITORS TO HAWAII: 1981 TO 1984

[Approximate figures, in thousands]

Place of residence	1981	1982	1983	1984
Total	3,935.0	4,243.0	4,368	4,856
United States	2,314.0	2,600.0	2,906	3,168
Foreign	1,621.0	1,643.0	1,462	1,688
Asia	878.0	897.0	818	924
Japan	690.4	715.0	729	816
Other Asia	187.6	182.0	89	108
Canada	291.0	303.0	268	330
Europe	169.0	115.0	68	63
United Kingdom	96.2	77.3	39	36
West Germany	28.9	30.0	20	18
Other Europe	43.9	7.7	9	9
Oceania and South Pacific	252.0	301.0	274	334
Australia	171.9	220.0	167	210
New Zealand	68.5	75.0	67	76
Other South Pacific	11.6	6.0	40	48
Other foreign	3.0	27.0	34	37

Source: Hawaii Visitors Bureau, tabular release dated March 1985.

Table 188.-- WESTBOUND PARTIES, BY VISITOR STATUS: 1983 AND 1984

[Based on a 20-percent sample for 1983 and a 10-percent sample for 1984]

Year	All surveyed parties	Visitors destined --		Returning residents	Intended residents
		To Hawaii	Beyond Hawaii		
1983 ..	2,393,755	1,684,695	533,740	163,365	11,955
1984 ..	2,292,290	1,841,830	202,400	233,640	14,420

Source: Hawaii Visitors Bureau, 1984 Annual Research Report, p. 8.

Table 189.-- WESTBOUND VISITOR ARRIVALS, BY COUNTIES VISITED: 1979 TO 1984

[Covers westbound visitors staying overnight or longer anywhere in the State, and any overnight or non-overnight interisland trips reported by these visitors. Based on a 20-percent sample through 1983 and a 10-percent sample for 1984]

Year	State total 1/	City and Co. of Honolulu	Hawaii County	Kauai County	Maui County
1979 ...	3,139,455	2,542,720	860,940	825,366	1,419,773
1980 ...	3,046,132	2,398,740	761,103	781,409	1,378,189
1981 ...	2,974,791	2,398,480	672,683	757,811	1,389,892
1982 ...	3,278,525	2,589,190	678,170	733,295	1,550,080
1983 ...	3,396,115	2,591,635	712,380	691,940	1,644,605
1984 ...	3,721,380	2,901,320	760,940	814,590	1,854,690

1/ Because many visitors visited more than one county, county data sum to totals greater than the State totals shown here.

Source follows next table.

Table 190.-- AVERAGE VISITOR CENSUS, BY COUNTIES: 1979 TO 1984

[Unlike the preceding table, this table includes eastbound and northbound visitors as well as westbound arrivals. Based on a 20-percent sample through 1983 and a 10-percent sample for 1984]

Year	State total	City and Co. of Honolulu	Hawaii County	Kauai County	Maui County
1979 ...	98,676	67,688	7,996	7,394	15,598
1980 ...	96,497	66,680	7,195	7,259	15,363
1981 ...	95,968	66,455	6,561	7,225	15,727
1982 ...	105,310	73,445	6,725	7,050	18,090
1983 ...	108,045	66,695	8,690	7,990	24,670
1984 ...	118,660	67,370	7,570	10,930	32,790

Source: Hawaii Visitors Bureau, release dated March 1985 and records.

Table 191.-- SUMMARY CHARACTERISTICS OF WESTBOUND VISITORS TO HAWAII: 1974 TO 1984

[Based on a 20-percent sample through 1983 and a 10-percent sample for 1984]

Year	Residence (percent) 1/		Males per 1,000 females	Median age (years)	High status occupations 2/ (percent)	Persons per party
	Pacific & Mountain States	California				
1974	38.2	24.4	788	44.1	59.3	1.72
1975	39.7	24.8	810	44.5	60.4	1.75
1976	37.9	24.0	787	44.8	58.4	1.75
1977	40.2	25.8	802	43.2	58.8	1.78
1978	41.3	26.0	810	42.9	59.8	1.81
1979	43.1	25.7	823	41.7	60.1	1.80
1980	47.1	30.6	829	41.3	62.0	1.79
1981	45.8	30.3	810	40.2	61.0	1.82
1982	44.2	29.5	789	39.1	61.5	1.82
1983	49.1	34.3	825	39.8	61.7	1.83
1984	41.9	27.2	812	40.1	61.5	1.84

Year	Arriving June 1-Aug. 31 (percent)	Repeat visitors 3/ (percent)	Pleasure trip (percent)	Staying in hotel 4/ (percent)	Average intended stay 5/ (days)	Intending to visit Neighbor Islands 6/ (percent)
1974	28.6	37.3	78.2	...	10.7	62.0
1975	28.6	39.7	76.4	...	10.8	66.0
1976	28.3	38.7	79.0	...	10.7	65.6
1977	27.3	41.1	78.6	...	10.9	66.8
1978	26.7	42.8	76.5	...	11.2	68.2
1979	27.0	44.1	76.7	74.4	11.2	68.5
1980	28.6	48.4	75.4	71.2	11.2	68.3
1981	28.4	47.2	77.7	70.1	11.3	67.0
1982	27.9	45.9	80.4	64.6	11.2	67.3
1983	28.9	50.4	77.8	61.7	11.0	66.9
1984	26.7	47.3	79.7	62.7	10.9	69.0

Footnotes and source on next page.

Table 191.-- SUMMARY CHARACTERISTICS OF WESTBOUND VISITORS TO HAWAII: 1974 TO 1984 -- Con.

1/ Base includes estimated number of visitors arriving directly from Canada and usually omitted from the Hawaii Visitors Bureau Basic Data Survey.

2/ Party heads only. Calculated as the number of professional, technical, business, managerial and official workers as a percent of all party heads responding to this question.

3/ Party heads only.

4/ Excludes condominiums operating as hotels. Data for years before 1979 are not comparable in coverage.

5/ Computed from total visitor days and total visitor arrivals for westbound visitors destined for Hawaii. These data may differ somewhat from corresponding data in the source, because of different computation procedures.

6/ Base includes passengers who did not answer this question.

Source: Hawaii Visitors Bureau, Annual Research Report (annual) and records.

Table 192.-- VISITOR INDUSTRY PROJECTIONS: 1982 TO 2005

[Series M-F projections, recommended by DPED for State planning purposes]

Year	Visitor arrivals (1,000)	Average visitor census (1,000)		Hotel employment (1,000)		Visitor and crew expenditures (millions of 1980 dollars)
		State total	Oahu only	State total	Oahu only	
1982 (est.) ..	4,243	105	72	26.5	14.7	3,172
1985	5,000	124	81	28.3	15.1	3,670
1990	6,083	156	95	31.8	16.2	4,477
1995	7,052	179	102	35.0	16.8	5,190
2000	7,786	198	107	36.9	17.0	5,731
2005	8,183	208	112	37.1	17.1	6,023

Source: Hawaii State Department of Planning and Economic Development, Population and Economic Projections for the State of Hawaii, 1980-2005 (July 1984), p. 20.

Table 193.-- DEMOGRAPHIC CHARACTERISTICS OF WESTBOUND VISITORS TO AND BEYOND HAWAII: 1983 AND 1984

[Data limited to visitors staying overnight or longer. Based on 20-percent sample for 1983 and a 10-percent sample for 1984]

Subject	Visitors to Hawaii		Visitors beyond Hawaii	
	1983	1984	1983	1984
All visitors	3,086,995	3,385,880	309,120	335,500
Age:				
Under 10 years	105,305	106,080	21,710	22,870
10 to 19 years	230,525	243,990	24,810	27,610
20 to 29 years	527,445	581,030	61,400	62,880
30 to 39 years	600,965	673,500	63,580	68,810
40 to 49 years	518,325	596,820	45,765	54,940
50 to 59 years	469,510	513,140	35,590	41,040
60 years and over	453,505	504,320	27,385	30,070
Age not reported	181,415	167,000	28,880	27,280
Sex:				
Male	1,395,880	1,517,580	169,740	185,700
Female	1,691,115	1,868,300	139,380	149,800
Residence (census divisions):				
Pacific	1,175,765	1,191,150	18,945	18,570
Alaska	22,170	24,380	515	570
California	962,375	920,810	15,020	14,920
Oregon	63,185	79,600	1,065	840
Washington	128,035	166,360	2,345	2,240
Mountain	202,995	227,730	3,840	4,810
West North Central	147,560	212,640	3,090	2,970
West South Central	198,810	252,020	5,410	5,220
East North Central	264,925	412,800	5,285	6,270
East South Central	46,350	80,040	1,490	1,330
New England	80,575	106,800	2,800	2,560
Middle Atlantic	229,930	308,620	6,575	6,370
South Atlantic	172,275	253,700	8,185	9,320
U.S. territories	210	190	2,785	3,570
Canada	224,470	283,670	6,115	5,440
Other foreign	60,375	55,540	231,410	268,740
Residence not reported	282,755	980	13,190	330

Source: Hawaii Visitors Bureau, Annual Research Report for 1983 and 1984.

Table 194.-- TRIP CHARACTERISTICS OF WESTBOUND VISITORS TO AND BEYOND HAWAII: 1983 AND 1984

[Data limited to visitors staying overnight or longer. Based on a 20-percent sample for 1983 and a 10-percent sample for 1984]

Subject	Visitors to Hawaii		Visitors beyond Hawaii	
	1983	1984	1983	1984
All visitors	3,086,995	3,385,880	309,120	335,500
Purpose of trip:				
Pleasure	2,373,195	2,679,990	243,350	270,550
Business	82,775	77,680	14,625	14,420
Business and pleasure	366,850	385,910	23,335	26,970
Government and military	16,390	17,010	6,285	6,180
Visiting relatives	112,920	98,630	7,665	7,580
Attend school	3,455	2,340	315	480
Convention	82,475	91,830	2,815	2,380
Other	11,180	7,990	3,570	2,770
Purpose not reported	37,755	24,500	7,160	4,170
Traveler status:				
Organized tour group	551,255	622,540	57,600	62,010
Individual basis	2,278,660	2,482,360	227,790	255,250
Incentive	126,115	189,800	4,800	4,390
Government/military	16,550	17,280	6,305	6,200
No answer	114,415	73,900	12,625	7,650
Intended accommodations:				
Hotel	1,895,585	2,121,590	253,265	278,410
Condominium	600,105	661,470	23,190	24,630
Hotel and condominium	205,730	218,310	2,915	4,650
Friend's or relative's home	299,560	270,350	19,830	20,410
Other accommodations	72,410	110,150	7,180	6,430
Not reported	13,605	4,010	2,740	970

Source: Hawaii Visitors Bureau, Annual Research Report for 1983 and 1984.

Table 195.-- INTENDED LENGTH OF STAY OF WESTBOUND VISITORS TO AND BEYOND HAWAII: 1983 AND 1984

[Data limited to visitors staying overnight or longer. Based on a 20-percent sample for 1983 and 10-percent sample for 1984]

Subject	Visitors to Hawaii		Visitors beyond Hawaii	
	1983	1984	1983	1984
All visitors	3,086,995	3,385,880	309,120	335,500
2 days	306,215	280,350	30,480	28,410
3 days			65,645	71,160
4 to 6 days			139,095	151,990
7 to 12 days	1,959,285	2,216,920	57,410	67,320
13 to 18 days	632,290	696,160	16,490	16,620
19 to 24 days	99,810	99,760		
25 to 30 days	41,625	43,730		
31 to 60 days	41,815	42,140		
61 to 90 days	5,000	6,080		
91 to 365 days	955	740		
Visitor days (1,000)	33,820	36,998	1,729	1,892

Source: Hawaii Visitors Bureau, Annual Research Report for 1983 and 1984.

Table 196.-- CHARACTERISTICS OF WESTBOUND VISITOR PARTY HEADS TO AND BEYOND HAWAII: 1983 AND 1984

[Data limited to visitors staying overnight or longer. Based on a 20-percent sample for 1983 and a 10-percent sample for 1984]

Subject	Visitors to Hawaii		Visitors beyond Hawaii	
	1983	1984	1983	1984
All party heads	1,684,695	1,841,830	187,610	202,400
Occupation:				
Professional and technical ...	603,060	655,620	59,035	63,770
Business, managerial, official	410,955	455,300	51,385	62,030
Clerical, office, sales	149,395	173,720	15,110	15,650
Military service	19,610	19,430	4,795	4,640
Other employed	112,775	127,050	12,225	12,710
Military dependent	3,115	3,170	350	250
Retired	215,305	246,810	14,635	15,870
Student	77,640	79,560	14,930	16,140
Other non-employed	52,850	47,860	8,625	6,240
Not reported	39,990	33,310	6,520	5,100
Trips to Hawaii:				
First trip	771,480	908,510	89,990	99,360
Second trip	293,870	320,070	31,380	35,370
Third trip	144,890	148,920	13,190	14,030
Fourth trip and over	344,690	345,650	32,365	35,470
Not reported	129,765	118,680	20,685	18,170
Persons in party:				
1 person	346,275	362,410	69,960	72,720
2 persons	944,825	1,058,480	58,195	66,080
3 persons	144,420	150,680	18,070	19,360
4 persons	146,645	163,010	25,810	26,680
5 persons or more	102,530	107,250	15,575	17,560
Average size	1.83	1.84	1.41	1.66

Source: Hawaii Visitors Bureau, Annual Research Report for 1983 and 1984.

Table 197.-- FAMILY INCOME, TRIP CHARACTERISTICS, AND OPINIONS OF MAINLAND VISITORS TO HAWAII: 1980 TO 1983

Subject	1980	1981	1982	1983
Number of respondents in sample	5,180	4,984	5,810	5,736
Family income before taxes (percent) ..	100.0	100.0	100.0	100.0
Under $15,000	10.3	7.5	6.0	5.0
$15,000 to $24,999	19.4	16.6	16.3	14.7
$25,000 to $34,999	24.1	22.2	21.7	20.3
$35,000 to $49,999	24.0	24.8	24.4	25.2
$50,000 and over 1/	22.2	28.9	31.6	34.8
Median income (dollars)	33,400	37,300	38,700	41,000
Education: college graduates (percent)	54.5	57.6	56.0	56.6
Using travel agent (percent)	79.6	79.0	78.7	80.2
Islands visited (percent):				
Oahu only	26.6	27.2	29.2	29.0
Hawaii	30.2	24.5	22.7	23.4
Maui	53.4	54.0	52.7	53.0
Kauai	34.6	33.0	27.3	27.0
Molokai	0.6	0.6	0.5	0.2
Hawaii compared with other vacation areas visited (percent)	100.0	100.0	100.0	100.0
Far superior	35.2	37.0	37.9	39.7
Above average	54.2	53.9	53.3	53.3
Average	9.4	8.3	7.8	6.4
Below average	1.0	0.7	0.8	0.6
Quite inferior	0.1	0.2	0.1	(Z)

1/ Data for 1983 were reported in two classes, $50,000 to $74,999 (21.4 percent) and $75,000 and over (13.4 percent).

Source: Hawaii Visitors Bureau, Visitor Reaction Survey (annual summaries).

Table 198.-- MEETINGS AND CONVENTIONS: 1979 TO 1984

Year	No. of meetings held	Estimated attendance	Estimated guest rooms	Estimated revenue ($1,000)
1979	574	178,753	88,481	94,049
1980	546	230,891	104,045	141,544
1981	505	181,662	84,142	134,164
1982	439	167,558	78,589	123,748
1983	420	211,764	(NA)	156,396
1984	623	255,152	91,605	218,247

NA Not available.

Source: Hawaii Visitors Bureau, Meetings and Conventions Department.

Table 199.-- MEETINGS AND CONVENTIONS, BY ISLANDS: 1984

Island	Number of meetings held	Estimated attendance
State total 1/	623	255,152
Hawaii:		
Hilo	7	989
Kona	109	22,760
Maui	217	62,405
Molokai	2	305
Oahu	298	165,575
Kauai	55	11,[illegible]80

1/ Because some meetings took place on more than one island, detail does not add to indicated totals.

Source: Hawaii Visitors Bureau, Meetings & Conventions Department.

Table 200.-- VISITOR EXPENDITURES, BY ORIGIN OF VISITOR AND TYPE OF EXPENDITURE: 1983

[Excludes transpacific travel costs]

Item	Aggregate expenditures (millions of dollars)			Expenditures per visitor day (dollars)	
	All visitors	Non-Japanese	Japanese 1/	Non-Japanese	Japanese 1/
All items	3,974.2	3,145.7	828.5	85.88	227.32
Food and beverage	993.7	786.4	207.3	21.47	56.88
Restaurants 2/	...	573.2	...	15.65	53.92
Nightclubs	...	51.7	...	1.41	2.96
Dinner shows	...	71.4	...	1.95	...
Groceries	...	90.1	...	2.46	...
Entertainment	220.2	186.8	33.4	5.10	9.17
Attractions	...	145.0	...	3.96	...
Other	...	41.8	...	1.14	...
Transportation	434.2	352.0	82.2	9.61	22.55
Ground transportation 3/	...	52.7	...	1.44	3.88
U-drive	...	153.1	...	4.18	...
Interisland travel	...	100.0	...	2.73	18.67
Sightseeing tours	...	46.2	...	1.26	...
Clothing	303.0	263.0	40.0	7.18	10.97
Gifts and souvenirs	506.3	268.1	238.2	7.32	65.34
Lodging	1,264.4	1,096.7	167.7	29.94	46.02
All other	202.2	142.5	59.7	3.89	16.39
Adjustment 4/	50.2	50.2	-	1.37	-

1/ Detail for sub-items not available in all cases.

2/ For Japanese visitors, refers to total expenditures for food.

3/ For Japanese visitors, refers to total transportation expenditures excluding interisland travel.

4/ Estimated amount of underreporting for listed categories.

Source: Hawaii Visitors Bureau, 1983 Visitor Expenditure Survey (1985), pp. 4, 35, and 37.

Table 201.-- AVERAGE EXPENDITURE PER VISITOR DAY, FOR THE STATE AND OAHU: 1974 TO 1983

Years surveyed	Westbound visitors		Visitors from Japan: Statewide
	Statewide	Oahu only	
1974	$46.20	$46.75	$123.00
1977	54.62	54.17	146.85
1980	71.24	69.24	185.00
1983	85.88	81.23	227.32

Source: Hawaii Visitors Bureau, 1983 Visitor Expenditure Survey (1985), p. 31.

Table 202.-- ESTIMATED EXPENDITURES BY VISITORS TO HAWAII, BY COUNTIES: 1974 TO 1984

[Millions of dollars. Excludes expenditures by Hawaii residents]

Year	State total	City and County of Honolulu 1/	Other counties 1/			
			Total	Hawaii	Kauai	Maui
1974	1,225	928	297.5	99.3	73.9	124.3
1975	1,360	1,004	355.9	114.6	87.2	154.1
1976	1,640	1,213	427.2	126.8	101.8	198.6
1977	1,845	1,377	468.5	131.2	109.9	227.4
1978	2,146	1,569	577.0	152.9	137.9	286.9
1979	2,537	1,867	669.8	162.0	159.1	348.7
1980	2,875	2,097	777.5	187.6	189.3	400.6
1981	3,200	2,394	805.9	179.2	197.3	429.4
1982	3,700	2,748	951.8	200.9	210.6	540.3
1983 2/....	3,974	2,653	1,320.9	277.2	250.8	792.9
1984 3/....	4,582	2,895	1,686.6	248.9	359.4	1,078.3

1/ Interisland air fares have been distributed on a prorata basis. Expenditures by eastbound visitors have been included with Oahu.

2/ Revised from Data Book 1984, table 225.

3/ Preliminary estimate.

Source: Hawaii Visitors Bureau, tabular release dated March 1985.

Table 203.-- ESTIMATED DIRECT VISITOR-RELATED EXPENDITURES: 1970 TO 1984

[In millions of dollars]

Year	Total	Visitors	Airline and ship crews	Overseas airlines 1/
1970	714.6	595	8.0	111.6
1971	835.8	705	8.0	122.8
1972	982.2	840	9.0	133.2
1973	1,181.6	1,020	8.0	153.6
1974	1,408.6	1,225	12.6	171.0
1975	1,559.4	1,360	8.4	191.0
1976	1,890.8	1,640	6.8	244.0
1977	2,093.8	1,845	7.8	241.0
1978	2,427.4	2,146	11.4	270.0
1979	2,947.7	2,537	11.6	399.1
1980	3,406.2	2,875	13.2	518.0
1981	3,775.0	3,200	15.0	560.0
1982	4,235.0	3,700	15.0	520.0
1983 2/	4,483.0	3,974	14.0	495.0
1984	5,139.0	4,582	15.0	542.0

1/ Includes payroll, fuel taxes, and landing fees.

2/ Revised from Data Book 1984, table 226.

Source: Hawaii State Department of Planning and Economic Development, The Economic Impact of Tourism in Hawaii: 1970 to 1980, Research Report 1983-2 (April 1983), and unpublished 1981-1984 estimates based on the DPED Input-Output Model.

Table 204.-- ECONOMIC ACTIVITY GENERATED BY VISITOR-RELATED EXPENDITURES: 1970 TO 1984

Year	Visitor-related expenditures (million dollars)	Total sales or output 1/ (million dollars)	Household income (million dollars)	State and county tax revenues (million dollars)	Jobs 1/ (1,000)
1970	714.6	1,318.1	469.1	72.4	71.0
1971	835.8	1,538.6	549.5	86.1	80.8
1972	982.2	1,806.0	647.3	100.8	88.2
1973	1,181.6	2,175.4	782.2	127.4	96.3
1974	1,408.6	2,582.7	932.0	151.1	109.7
1975	1,559.4	2,815.2	1,017.5	180.7	110.9
1976	1,890.8	3,332.9	1,206.8	217.9	120.2
1977	2,093.8	3,699.7	1,341.8	229.6	125.2
1978	2,427.4	4,322.3	1,568.6	268.9	133.2
1979	2,947.7	5,145.8	1,867.0	328.9	143.3
1980	3,406.2	5,868.4	2,130.8	377.1	148.7
1981 2/ .	3,775.0	6,458.6	2,352.8	417.3	152.3
1982 2/ .	4,235.0	7,298.2	2,665.3	441.4	161.5
1983 2/ .	4,483.0	7,720.5	2,826.4	477.4	164.7
1984	5,139.0	8,767.8	3,213.7	559.1	176.5

1/ Direct, indirect, and induced.

2/ Revised from Data Book 1984, table 227.

Source: Hawaii State Department of Planning and Economic Development, The Economic Impact of Tourism in Hawaii: 1970 to 1980, Research Report 1983-2 (April 1983), and unpublished 1981-1984 estimates based on the DPED Input-Output Model.

Table 205.-- ECONOMIC ACTIVITY GENERATED BY VISITOR-RELATED EXPENDITURES, BY INDUSTRY: 1984

Year and industry (million dollars)	Direct visitor-related expenditures 1/ (million dollars)	Total sales or output 2/ (million dollars)	Total household income (million dollars)	Jobs (1,000)	
				Total 3/	Direct only
All industries	5,139.0	8,767.8	3,213.7	176.5	97.5
Agriculture	41.1	90.8	40.3	0.7	0.4
Textile and apparel mfg.	44.0	77.9	26.8	1.9	1.2
Other manufacturing	139.0	272.4	72.3	4.8	1.5
Air transportation	458.7	807.3	261.5	12.8	5.7
Other transportation	202.8	417.8	160.2	7.0	3.5
Wholesale trade 4/	123.1	259.7	112.0	5.6	2.7
Eating and drinking places ...	1,049.0	2,045.6	618.9	47.7	27.7
Other retail trade 4/	442.0	950.3	442.0	28.6	18.7
Hotel services and real estate	1,440.5	3,212.3	1,224.4	52.4	27.2
Other services	307.6	633.7	255.3	15.0	8.9
Imports	891.2	...	...	...	...

1/ Direct expenditures by visitors, airline and ship crews, and overseas airlines.

2/ Direct, indirect, and induced sales.

3/ Direct, indirect and induced jobs.

4/ Expenditure figure refers to mark-up earned, not total sales revenue.

Source: Hawaii State Department of Planning and Economic Development, unpublished estimates based on the DPED Input-Output Model.

Table 206.-- HAWAII VISITORS BUREAU INCOME AND EXPENDITURES: 1980 TO 1984

[In dollars. Years ended June 30]

Year	Income				Expenditures
	Total	State appropriations 1/	Private subscriptions	Other 2/	
1980	3,140,200	2,069,728	799,978	270,494	3,118,998
1981	3,337,771	2,052,727	941,542	343,502	3,285,624
1982	4,431,673	3,197,785	1,033,486	200,402	4,448,871
1983	4,484,734	3,216,000	966,146	302,588	4,485,156
1984	4,384,978	2,706,732	1,108,374	569,872	4,384,264

1/ Net after refunds (if any) to the State.

2/ May include income from Federal grants, mainland promotional programs, literature sales, convention servicing, and interest.

Source: Hawaii Visitors Bureau, Financial Statements of Operations (annual), and records.

Table 207.-- PASSPORTS ISSUED, BY FIRST AREA DESTINATION: 1981 TO 1984

Passport category and first area destination	1981	1982	1983 1/	1984
Issued by Honolulu Passport Agency 2/ ..	34,191	41,906	41,446	52,250
Issued to Hawaii residents, total 3/ ...	31,700	38,690	30,040	(NA)
Europe	10,970	14,860	15,720	(NA)
Middle East	510	310	440	(NA)
Far East	10,980	13,830	7,250	(NA)
North, Central, and South America	940	960	920	(NA)
Africa	100	70	80	(NA)
Australia and Oceania	8,200	8,660	5,580	(NA)
World tour	-	-	50	(NA)

NA Not available.

1/ Revised from Data Book 1984, table 231.

2/ Includes passports issued to persons not residing in Hawaii.

3/ Includes passports issued by offices not in Hawaii.

Source: U.S. Department of State, Honolulu Passport Office, information supplied September 23, 1985.

Table 208.-- CHARACTERISTICS OF OUT-OF-STATE TRAVEL BY HAWAII RESIDENTS: 1979

[Data obtained from a telephone survey of 500 adults, 18 years old and over, living in regular housing units. Coverage excludes persons under 18 and all occupants of institutions and military barracks]

Characteristics	Number
Total round-trips by adults for vacations outside Hawaii, 1979	355,000
Percent of all adults --	
Vacationing outside Hawaii in 1979	35.2
Last vacation outside Hawaii was before 1979	39.8
Never vacationed outside Hawaii	25.0
Percent of all adults vacationing in 1979 in -- 1/	
California	21.2
Nevada	12.0
Alaska	0.4
Pacific Northwest	3.8
Southwest States	1.0
Rocky Mountain States	2.0
Central States	3.8
Southern States	3.2
Eastern States	4.4
Canada	2.0
Japan	1.6
Philippines	1.4
Europe	1.4
Length of vacation trips in 1979 (nights): 2/	
Median	12.8
Mean	17.2

1/ Respondents could name more than one destination per trip. Only those foreign areas mentioned by 1.0 percent or more of respondents are shown separately in this table; for greater detail, see Data Book 1983, table 197, or source.

2/ Includes time spent for nonvacation purposes.

Source: John M. Knox and Juanita C. Liu, Out-of-State Recreational Travel by Hawaii Residents (Hawaii State Department of Planning and Economic Development, April 1980).

Table 209.-- CHARACTERISTICS OF RESIDENTS RETURNING FROM THE MAINLAND: 1980 TO 1984

Year	Number returning	Oahu residents 1/ (percent)	Median age (years)	Males per 100 females	Persons per party
1980	197,799	85.2	37.9	100.8	1.42
1981	230,728	83.8	37.3	101.6	1.44
1982	290,040	84.8	36.7	100.9	1.45
1983	236,725	84.7	36.5	102.2	1.45
1984	333,640	82.8	38.2	100.4	1.43

Year	Party heads with high-status occupations 3/ as percent of--		Days absent 4/		Average number absent 4/
	All party heads	Employed civilian party heads	Median	Mean	
1980	54.8	78.0	11.6	17.0	9,200
1981	54.5	78.7	13.3	17.3	10,900
1982	52.6	78.6	13.3	18.1	14,400
1983	51.3	78.4	12.8	17.2	11,200
1984	53.6	80.1	12.5	16.1	14,700

1/ Data for Oahu include persons specifying military bases rather than island of residence.

2/ Year ended June 30.

3/ Party heads reporting professional, technical, business, managerial, and official occupations.

4/ For persons absent 1 to 365 days.

Source: Hawaii State Department of Planning and Economic Development, Out-of-State Travel by Hawaii Residents During 1984 (Statistical Report 175, July 2, 1985), table 2.

Table 210.-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS: 1982 TO 1984

[Calendar year data unless otherwise specified]

Island and cultural attraction	1982	1983	1984
State total	12,542,774	12,251,158	12,313,667
Oahu	9,938,815	9,969,724	10,882,050
Bernice P. Bishop Museum 1/	202,319	175,961	224,482
Contemporary Arts Center	30,000	27,000	27,000
Damien Museum and Archives 2/	4,569	14,656	3,508
Dole Cannery tours 3/	88,276	115,015	127,229
Falls of Clyde Maritime Museum 4/	18,006	6,738	8,000
Foster Botanic Garden 5/	125,442	112,309	64,077
Fred Ohrt Museum	5,506	4,102	4,271
Honolulu Academy of Arts 6/	218,442	218,215	235,615
Ho'omaluhia Park 7	121,297	78,082	59,622
Iolani Palace State Monument 8/	56,000	61,000	65,000
Kamehameha V Post Office 8/	8,000	6,000	3,000
Kodak Hula Show	578,000	488,000	538,000
Mission Houses Museum 9/	24,080	29,626	18,504
Mormon Temple Grounds (Church of Jesus Christ of Latter-Day Saints, Hawaii Temple Visitor's Center) 6/	298,848	287,585	319,113
National Memorial Cemetery of the Pacific	3,866,100	3,989,152	4,394,458
Pacific Submarine Museum	68,344	69,477	70,000
Paradise Park	303,000	305,000	315,592
Polynesian Cultural Center	950,000	900,000	1,030,000
Puu o Mahuka Heiau State Monument 8/	3,000	14,000	21,000
Queen Emma Summer Palace	16,820	18,786	18,152
Royal Mausoleum State Monument 8/	77,000	79,000	79,000
Sea Life Park 10/	579,584	566,320	617,500
Tennent Art Foundation Gallery	3,000	3,000	2,500
Tropic Lightning Historical Center 11/	15,600	9,210	6,000
Ulu Po Heiau State Monument 8/	1,000	3,000	4,000
U.S. Army Museum, Ft. DeRussy	105,710	98,268	118,908
U.S.S. Arizona Memorial	1,440,582	1,530,990	1,715,047
Visiting either Memorial or Visitor Center	1,148,561	1,153,286	1,376,816
Aboard non-landing tour boats	292,021	377,704	338,231
Wahiawa Botanic Garden 12/	35,309	17,148	20,225
Waikiki Aquarium 13/	250,776	248,261	295,760
Waimea Falls Park	444,265	493,823	476,487

Continued on next page.

Table 210.-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS: 1982 TO 1984 -- Con.

Island and cultural attraction	1982	1983	1984
Hawaii	1,921,694	1,622,674	558,905
Hulihee Palace	18,907	23,411	23,501
Kamuela Museum	10,447	18,033	18,000
Kilauea Visitor Center 14/	(15/)	1,500,000	433,144
Lapakahi State Park 8/	50,000	65,000	68,000
Lyman House Memorial Museum	17,340	16,230	16,260
Maui	129,082	137,330	329,702
Halekii-Pihana Heiaus State Monument 8/	44,000	44,000	53,000
Lahaina Restoration Foundation	76,124	85,295	119,327
Baldwin Home Museum	37,262	33,440	41,333
Brig *Carthaginian*	38,562	42,837	68,203
Hale Pa'i 16/	300	9,018	7,691
Wo Hing Temple 17/	-	-	2,100
Maui Historical Society Museum 18/	8,958	8,035	7,711
Maui Plantation 19/	-	-	149,664
Kauai	547,800	512,844	533,006
Grove Farm Homestead	3,789	4,225	4,420
Hanalei Museum 20/	6,000	-	6,000
Kauai Museum 21/	24,529	17,236	20,102
Kokee Natural History Museum	57,981	61,241	72,299
Russian Fort Elizabeth State Monument 22/	451,000	426,000	425,000
Waioli Mission House	4,501	4,142	5,185
Molokai	5,383	8,586	10,004
Kalaupapa Settlement	5,383	8,586	10,004

1/ Years ended June 30. Excludes *Falls of Clyde* Maritime Museum, operated by the Bishop Museum until November 1, 1983 but listed separately in this table.

2/ Closed part of 1984.

3/ 1984 figure refers to year ended June 30.

4/ Closed November 1982 to November 1983.

5/ Admission fee charged beginning January 2, 1984.

6/ Excludes Academy Theatre (52,458 in 1984).

7/ Opened March 4, 1982.

8/ Years ended June 30.

9/ Years ended June 30, 1982, December 31, 1983, and September 30, 1984.

10/ 1982 figure refers to year ended February 28, 1983.

Continued on next page.

Table 210.-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS: 1982 TO 1984 -- Con.

11/ Annual data may not be comparable. Closed three months in 1984.
12/ Closed November 23, 1982 to May 24, 1983.
13/ Includes both adult (210,052 in 1984) and child (85,708) attendance.
14/ Annual data may not be comparable.
15/ Estimated at 1,750,000 to 1,900,000.
16/ Reopened December 17, 1982, after two-year restoration.
17/ New site opened December 17, 1984, after one-year restoration.
18/ Formerly Hale Hoikeike. 1983 figure refers to year ended February 29, 1984.
19/ Opened (as Hawaii Tropical Plantation) August 4, 1984.
20/ Closed November 23, 1982 to June 1984
21/ Years ended September 30.
22/ Years ended June 30. Attendance estimates reflect heavy use of restrooms by tour bus passengers.

Source: Hawaii State Department of Planning and Economic Development, Attendance at Museums and Other Attractions, 1984 (Statistical Memorandum 85-2, April 22, 1985), as revised May 8, 1985.

Table 211.-- ATTENDANCE AT MUSEUMS AND OTHER ATTRACTIONS: 1974 TO 1984

Year	Number of attractions 1/	Attendance (1,000)	Year	Number of attractions 1/	Attendance (1,000)
1974 ..	29	4,407	1980 ..	40	10,314
1975 ..	30	6,261	1981 ..	45	10,237
1976 ..	32	7,480	1982 ..	47	12,543
1977 ..	33	8,794	1983 ..	46	12,251
1978 ..	32	9,504	1984 ..	48	12,314
1979 ..	37	10,539			

1/ Facilities with multiple sites or attractions are counted only once.

Source: Hawaii State Department of Planning and Economic Development, Attendance at Museums and Other Attractions, 1984 (Statistical Memorandum 85-2, April 22, 1985), as revised May 8, 1985.

Table 212.-- HONOLULU SYMPHONY ORCHESTRA: 1973-1974 TO 1983-1984

Season	Average number of orchestra personnel	Number of performances	Total attendance	Operating expenses (dollars)
1973-1974	80	119	177,000	1,439,486
1974-1975	80	135	198,000	1,423,911
1975-1976	80	128	224,000	1,654,510
1976-1977	80	136	200,000	1,654,050
1977-1978	75	109	194,474	1,980,720
1978-1979	75	118	192,413	2,398,020
1979-1980	75	122	186,135	2,189,172
1980-1981	80	107	155,622	2,211,082
1981-1982	80	109	168,900	2,627,293
1982-1983	80	142	204,193	2,817,196
1983-1984	80	133	194,600	2,562,500

Source: Hawaii State Department of Planning and Economic Development, The Performing Arts, 1983-1984 (Statistical Memorandum 85-1, January 7, 1985), table 3.

Table 213.-- PERFORMING ARTS STATISTICAL SUMMARY, FOR OAHU: 1977-1978 TO 1983-1984 SEASONS

Season	Number of groups reporting	Productions	Performances	Attendance
1977-1978	12	254	1,513	850,802
1978-1979	12	219	1,024	766,018
1979-1980	12	183	1,178	723,581
1980-1981	13	254	1,128	830,585
1981-1982	12	500	1,300	804,647
1982-1983	13	502	1,376	936,821
1983-1984	13	695	1,734	1,060,367

Source: Hawaii State Department of Planning and Economic Development, The Performing Arts, 1983-1984 (Statistical Memorandum 85-1, January 7, 1985), table 1.

Table 214.-- PERFORMING ARTS, FOR OAHU: 1983-1984 SEASON

Name of organization and type of performance	Productions	Performances	Attendance
All reporting groups	695	1,734	1,060,367
Brigham Young Univ.-Hawaii Campus	12	12	5,069
Chaminade University of Honolulu	2	12	1,800
Hawaii Loa College	4	12	900
Hawaii Performing Arts Company, total	8	173	18,140
Main stage season	7	163	17,112
Studio Series	1	10	1,028
Honolulu Community Theatre, total	11	120	50,403
Main stage productions	8	100	43,139
Studio productions	1	4	464
American Conservatory Theatre	2	16	6,800
Honolulu Dept. of Auditoriums, total	102	240	598,448
Ballets	5	15	21,243
Concerts	53	84	235,610
Operas	4	12	18,674
Rock shows	10	15	113,960
Other dramatic and musical productions	30	114	208,961
Honolulu Theatre for Youth	8	333	140,422
Leeward Community College, total	45	106	47,450
Drama	2	40	21,055
Music	22	27	9,935
Dance	8	25	10,411
Miscellaneous	13	14	6,049
Pohai Nani Players	2	6	400
U.S. Army Support Command, total	476	593	147,908
Plays, musicals and workshops	12	74	6,630
Showmobile activities	33	33	41,706
Commercial entertainment activities	11	11	43,520
DOD/USO touring shows	12	67	17,176
Shows at KMC and PTA, Big Island	19	19	4,502
Soldier bands and jam sessions	389	389	34,374
University of Hawaii at Manoa, total	16	94	44,502
On campus	15	93	43,302
Off campus	1	1	1,200
Windward Community College	5	5	125
Windward Theater Guild	4	28	4,800

Source: Hawaii State Department of Planning and Economic Development, The Performing Arts, 1983-1984 (Statistical Memorandum 85-1, January 7, 1985), table 2.

Table 215.-- RECREATIONAL FACILITIES AND RESOURCES, BY COUNTIES: 1980

Type of facility or site	State total	Honolulu	Hawaii	Kauai	Maui
Active parks (sites)	428	272	65	38	53
Public	220	122	38	28	32
DOE and UH 1/	208	150	27	10	21
Swimming pools	52	35	7	5	5
Sport fields	481	302	69	61	49
Public	349	220	42	54	33
DOE and UH 1/	132	82	27	7	16
Sport courts	792	622	67	47	56
Public	555	473	19	35	28
DOE and UH 1/	237	149	48	12	28
Tennis courts	494	304	69	71	50
Public	258	178	38	19	23
Private	87	21	13	42	11
DOE and UH 1/	149	105	18	10	16
Golf courses (sites)	40	17	9	4	10
Public	8	5	1	1	1
Private	32	12	8	3	9
Boat lanes	66	25	19	13	9
Boat moorages	2,385	1,820	297	91	177
Sandy beaches (sites) ...	221	103	29	40	49
Improved park	84	43	8	18	15
Unimproved	137	60	21	22	34
Picnicking sites	170	65	42	26	37
Beach	113	47	29	19	18
Inland	57	18	13	7	19
Camping sites	64	21	19	13	11
Beach	51	20	14	12	5
Inland	13	1	5	1	6

1/ Hawaii State Department of Education and University of Hawaii.

Source: Hawaii State Department of Land and Natural Resources, State Recreation Plan, Technical Reference Document (September 1980), pp. 67, 69, 71, 73, and 75.

Table 216.-- PEAK-DAY RESIDENT AND VISITOR PARTICIPATION IN SPECIFIED RECREATION ACTIVITIES: 1980

[Based on a survey conducted in the late summer of 1978 and projections of resident population and average visitor census for 1980. The data refer to the day of the week on which the greatest combined participation by residents and visitors occurs for the specified activity]

Activity	Activity occasions 1/		Percent of State total accounted for by --	
	State total	Oahu only	Residents	Visitors
All activities	986,430	737,417	83	17
Walking	240,434	191,201	78	22
Jogging	73,068	62,181	96	5
Hiking	15,709	10,413	79	21
Camping	20,809	16,130	96	5
Group camping	3,804	913	89	11
Picnicking	84,716	58,447	94	6
Hunting	1,502	234	90	10
Golf	15,681	11,714	79	21
Swim or sunbathing	171,525	123,616	75	25
Diving	20,875	13,483	77	23
Surfing	22,608	15,587	81	19
Boating	18,563	13,547	73	27
Canoe paddling	3,233	1,786	87	13
Fishing	24,875	17,322	96	4
Field games	32,404	27,065	98	2
Court games	19,070	15,891	100	0
Playground equipment	14,928	11,175	100	1
Tennis	18,106	12,749	85	15
Outdoor events	19,071	15,562	76	24
Bicycling	74,909	54,403	100	0
Motorcycling	8,722	6,719	83	17
Other activities	22,606	18,008	98	3
Sightseeing	59,212	39,271	47	53

1/ An activity occasion is a peak-day participation in that activity by a member of a resident household or visitor party.

Source: Hawaii State Department of Land and Natural Resources, State Recreation Plan, Technical Reference Document (September 1980), pp. 80 and 83.

Table 217.-- NATIONAL PARKS: 1972 TO 1984

Year and area	Acreage, Dec. 31 1/			Visits
	Total	Federal	Non-federal	
1972	235,274	235,174	100	2,046,081
1973	235,274	235,208	66	2,025,593
1974	235,274	235,208	66	2,298,676
1975	235,274	235,208	66	2,559,429
1976	235,274	235,208	66	2,895,840
1977	235,274	235,208	66	2,932,555
1978	236,574	235,208	1,366	3,572,504
1979	236,574	235,208	1,366	3,384,343
1980	247,488	235,243	12,245	3,479,797
1981	247,488	235,243	12,245	4,225,217
1982	247,488	235,243	12,245	4,950,621
1983	247,349	235,243	12,106	5,252,385
1984	247,349	235,243	12,106	5,429,289
AREAS: 1984				
Hawaii Volcanoes National Park 1/	207,643	207,643	-	2,597,838
Haleakala National Park	27,350	27,350	-	1,026,562
Pu'uhonua o Honaunau National Historical Park	181	181	-	383,120
Kaloko-Honokohau National Historical Park	1,161	-	1,161	(2/)
Puukohola Heiau National Historic Site	100	34	66	44,953
U.S.S. Arizona Memorial 3/	12	12	-	1,376,816
Kalaupapa National Historical Park	10,902	23	10,879	(2/)

1/ Data exclude the Olaa Forest Tract. This 9,654-acre tract is entirely in Federal ownership, is managed by the National Park Service, and has been designated as part of the wilderness system by the Congress, but it is not within the legally authorized boundary of Hawaii Volcanoes National Park. All acreage estimates were revised in January 1984.

2/ Not yet open to the public.

3/ The U.S.S. Arizona Memorial is wholly within the Pearl Harbor Naval Base. The acreage figure is the approximate extent of the total area over which the National Park Service has been granted use rights by the U.S. Navy.

Source: U.S. Department of the Interior, National Park Service, Pacific Area Office, records.

Table 218.-- STATE PARKS AND HISTORIC SITES: 1975 TO 1985

Year and island	Number of areas, June 30	Acreage, June 30		Recreation visits, year ended June 30 (1,000)
		Total	Developed	
1975	53	18,181	578.9	12,124
1976	55	18,577	606.6	14,305
1977	58	20,151	681.8	18,864
1978	64	20,295	706.8	15,966
1979	65	20,625	880.0	17,911
1980	66	20,637	916.7	17,169
1981	71	20,836	937.8	15,611
1982	72	20,885	937.8	18,111
1983	74	20,564	980.1	17,246
1984	74	24,751	979.1	19,406
1985	74	24,799	882.1	19,908
ISLANDS: 1984				
Hawaii	18	1,588.1	309.2	3,930
Maui	11	284.9	50.3	3,539
Molokai	1	233.7	10.0	186
Oahu	33	8,849.9	399.8	4,299
Kauai	11	13,793.9	209.8	7,452
ISLANDS: 1985				
Hawaii	18	1,298.3	280.4	4,495
Maui	12	318.2	56.3	3,824
Molokai	1	233.7	10.0	184
Oahu	32	9,164.6	392.5	5,427
Kauai	11	13,783.7	142.9	5,978

Source: Hawaii State Department of Land and Natural Resources, Division of State Parks, Outdoor Recreation and Historic Sites, records.

Table 219.-- MAJOR STATE PARKS: 1984 AND 1985

[Parks having at least 750,000 recreation visits or 1,000 acres]

Park	Acreage, June 30		Recreation visits, year ended June 30 (1,000)
	Total	Developed	
1984			
Wailua River State Park 1/	1,133.4	77.1	3,739
Waimea Canyon State Park	1,866.4	10.0	1,449
Hapuna Beach State Recreation Area ...	300.0	26.8	1,019
Kokee State Park 2/	4,345.0	55.0	930
Nuuanu Pali State Wayside	5.0	2.5	899
Sand Island State Recreation Area	140.0	83.0	795
Iao Valley State Monument	6.2	5.9	781
Na Pali Coast State Park	6,175.0	4.0	54
Kahana Valley State Park	5,093.2	20.0	40
Sacred Falls State Park	1,374.2	10.0	33
1985			
Wailua River State Park 1/	1,125.9	50.4	3,030
Sand Island State Recreation Area	140.0	83.0	1,761
Hapuna Beach State Recreation Area ...	61.1	20.0	1,251
Nuuanu Pali State Wayside	2.5	2.5	1,196
Waimea Canyon State Park	1,866.4	10.0	930
Kokee State Park 2/	4,345.0	55.0	853
Iao Valley State Monument	6.2	5.9	847
Na Pali Coast State Park	6,175.0	4.0	53
Kahana Valley State Park	5,220.3	20.0	41
Sacred Falls State Park	1,374.2	10.0	34

1/ Six separate areas in 1984 and seven in 1985. Includes separate estimate of visits for Opaekaa Lookout in 1984 but not 1985.

2/ Includes separate estimate of visits for Kalalau Lookout in 1984 but not 1985.

Source: Hawaii State Department of Land and Natural Resources, Division of State Parks, Outdoor Recreation, and Historic Sites, records.

Table 220.-- NATIONAL AND STATE HISTORIC SITES, BY ISLANDS: 1985

Island	Total sites 1/	Listed Hawaii Register only	Listed and recommended for National Register 2/	Listed National Register only	Listed both Hawaii and National Register	Eligible for Nat'l Register 3/
State total	376	90	40	92	119	37
Hawaii	87	36	2	18	23	9
Kauai	45	12	4	5	19	5
Kahoolawe .	1	-	-	1	-	-
Lanai	1	-	-	1	-	-
Maui	34	19	1	5	8	1
Molokai ...	55	14	14	2	24	2
Oahu	153	9	19	60	45	20

1/ Total sites listed in the source, as adjusted for appearance of some sites on more than one list.

2/ Sites placed on the Hawaii Register of Historic Places by the Historic Places Review Board but not yet approved by either the State Historical Preservation Officer or the National Historical Places Review Board.

3/ Sites declared eligible for National Register listing by the National Board.

Source: Hawaii State Department of Land and Natural Resources, State Parks, Outdoor Recreation, and Historic Sites Division, Hawaii Historic Places Review Board, Hawaii National Registers of Historic Places (February 1985).

Table 221.-- COUNTY PARKS: 1982 TO 1984

[As of December 31]

Island	Number of areas			Acreage		
	1982	1983	1984	1982	1983	1984
State total ..	627	626	630	8,207	8,273	8,283
Hawaii	134	135	135	1,445	1,460	1,463
Maui	82	79	80	921	899	899
Lanai	2	3	3	5	7	7
Molokai	10	10	11	51	51	54
Oahu	343	343	345	5,265	5,273	5,277
Kauai	56	56	56	520	583	583

Source: Compiled by the Hawaii State Department of Planning and Economic Development from the City and County of Honolulu Department of Parks and Recreation, Hawaii County Department of Parks and Recreation, Kauai County Department of Public Works, and Maui County Department of Parks and Recreation.

Table 222.-- COUNTY GOLF COURSES AND CAMPING PERMITS, FOR OAHU: 1979 TO 1984

Calendar year	Public golf courses			Camping permits issued 1/
	Courses	Holes	Rounds played	
1979	4	63	351,204	8,414
1980	4	63	424,426	6,438
1981	4	63	461,543	5,989
1982	4	63	447,782	6,412
1983	4	63	494,610	7,462
1984	4	63	484,691	8,062

1/ By the City and County of Honolulu.

Source: City and County of Honolulu, Department of Parks and Recreation, data provided February 11, 1985.

Table 223.-- ATTENDANCE AND WATER SAFETY AT GUARDED BEACH PARKS, FOR THE CITY AND COUNTY OF HONOLULU: 1984 AND 1985

[Years ended June 30]

Subject	1984	1985
Approximate attendance, total 1/ (1,000) .	20,306	12,530
Ala Moana	3,556	1,708
Waikiki	5,145	5,512
Hanauma Bay	3,689	1,579
Sandy Beach	1,681	495
Ehukai	1,178	181
Rescues	975	624
First aid: Minor	18,685	18,122
Major	1,229	624
Surfing accidents	117	191
Resuscitation	30	31
Ambulance assistance	150	97
Police assistance	69	72
Helicopter assistance	13	16
Lost children	172	139
Drownings	3	6

1/ Based on headcounts taken at approximately two-hour intervals by Water Safety Officers over an 8-hour work day. Data shown separately for beach areas over one million in either 1984 or 1985.

Source: City and County of Honolulu, Department of Parks and Recreation, data provided October 11, 1985.

Table 224.-- ZOOS: 1983 AND 1984

Zoo	Animal and bird inventory 1/				Attendance	
	Species		Individuals			
	1983	1984	1983	1984	1983	1984
Coco Palms (Kauai)	6	6	65	75	3,742	3,331
Honolulu Zoo 2/	315	292	1,119	1,107	1,129,192	694,097
Maui Zoological and Botanical Gardens	45	42	176	163	86,200	87,000
Molokai Ranch Wildlife Park ..	11	11	350	463	3,000	3,000
Panaewa Rainforest Zoo (Hilo)	53	52	153	173	37,007	36,040

1/ As of December 31.

2/ Decline in attendance attributed to entry fee instituted as of January 2, 1984.

Source: Data obtained by Hawaii State Department of Planning and Economic Development from Coco Palms Resort Hotel, Molokai Ranch Wildlife Park, and the departments of parks and recreation of the City and County of Honolulu and Counties of Hawaii and Maui.

Table 225.-- FISHING AND HUNTING LICENSES ISSUED: 1980 TO 1985

[Years ended June 30]

Year	Freshwater game fishing licenses	Hunting licenses
1980	7,815	11,905
1981	8,102	12,284
1982	8,526	11,935
1983	8,720	11,959
1984	9,366	12,107
1985	7,131	12,599

Source: Hawaii State Department of Land and Natural Resources, Division of Conservation and Resources Enforcement, data provided September 3, 1985.

Table 226. -- FISHING AND HUNTING CHARACTERISTICS OF PERSONS 16 YEARS AND OVER, BY RESIDENT STATUS: 1980

Activity and characteristic	Resident in-State	Nonresident in-State	Resident out-of-State
FISHING			
Participants	153,200	90,700	15,100
Freshwater	16,400	13,100	8,600
Saltwater	149,400	90,000	7,500
Deep sea	25,900	37,400	500
Surf and shore	132,300	46,300	3,100
Sounds, bays, tidal inlets, streams	4,400	6,900	5,100
Participants as percent of population	21.7	(X)	2.1
Days of participation	3,017,900	257,700	242,700
Per fisherman	19.7	2.8	16.1
HUNTING			
Participants	17,300	11,100	3,300
Deer	2,400	-	900
Wild turkey	1,800	-	400
Feral goat	9,100	5,700	-
Feral sheep	3,900	-	-
Feral pigs	10,600	4,900	-
Quail	3,500	9,900	500
Pheasant	7,500	9,900	400
Partridge	2,700	-	400
Migratory birds	2,300	5,500	200
Participants as percent of population	2.4	(X)	0.5
Days of participation	301,800	40,100	34,700
Per hunter	17.4	3.6	10.6

X Not applicable.

Source: U.S. Fish and Wildlife Service and U.S. Bureau of the Census, 1980 National Survey of Fishing, Hunting, and Wildlife-Associated Recreation, Hawaii.

Table 227.-- PUBLIC HUNTING AREAS AND WILDLIFE SANCTUARIES AND REFUGES, BY ISLANDS: FEBRUARY 1985

Island	Public hunting areas		National Wildlife Refuges 1/		Other wildlife sanctuaries and refuges	
	Number	1,000 acres	Number	1,000 acres	Number	1,000 acres
State total	61	1,026.2	6	256.0	11	80.6
Hawaii	26	727.9	-	-	4	79.5
Maui	7	102.5	-	-	2	0.1
Lanai	1	35.6	-	-	-	-
Molokai	3	27.5	1	0.0	-	-
Oahu	13	26.0	2	0.2	5	0.7
Kauai	11	106.7	3	1.2	-	-
Niihau	-	-	-	-	-	-
Other islands	-	-	1	254.6	(2/)	0.3

1/ U.S. Fish and Wildlife Service.

2/ The Hawaii State Seabird Sanctuary is comprised of 36 islets offshore all major islands, including Kure Atoll in the Northwestern Hawaiian Islands. This sanctuary is administered out of the Oahu District office.

Source: Hawaii State Department of Land and Natural Resources, Division of Forestry and Wildlife, information supplied February 5, 1985.

Table 228.-- GOLF COURSES, BY ISLANDS: 1984

Island and type of operation	Number of courses				Number of holes
	Total	9-hole	18-hole	27-hole	
State total ..	57	12	44	1	927
Hawaii	11	2	9	-	180
Public 1/	4	2	2	-	54
Municipal	1	-	1	-	18
Resort	6	-	6	-	108
Maui	10	2	8	-	162
Private	1	1	-	-	9
Public 1/	1	1	-	-	9
Municipal	1	-	1	-	18
Resort	7	-	7	-	126
Lanai	1	1	-	-	9
Public 1/	1	1	-	-	9
Molokai	2	1	1	-	27
Public 1/	1	1	-	-	9
Resort	1	-	1	-	18
Oahu	28	5	23	-	459
Private	4	-	4	-	72
Public 1/	8	1	7	-	135
Municipal	4	1	3	-	63
Military	9	3	6	-	135
Resort	3	-	3	-	54
Kauai	5	1	3	1	90
Public 1/	1	1	-	-	9
Municipal	1	-	1	-	18
Resort	3	-	2	1	63

1/ Privately owned courses open to the public on daily-fee basis.

Source: Bill Gee, 1984 Hawaiian Golf Almanac (Hawaii Junior Golf Association), pp. 3 and 8.

Table 229.-- WATER RECREATION FACILITIES AND RESOURCES, BY ISLANDS: 1984

Island	Small craft mooring facilities capacity 1/		Miles of sandy shoreline 2/		Number of surfing sites 3/
	Catwalks and piers	Other mooring areas	Total	Primary 4/	
Six major islands .	1,265	768	184.9	24.4	1,600
Hawaii	25	314	19.4	1.2	185
Maui	47	147	32.6	7.9	212
Lanai	28	-	18.2	-	99
Molokai	3	29	23.2	-	180
Oahu	1,104	242	50.3	12.5	594
Kauai	58	36	41.2	2.8	330

1/ As of December 31, 1984.

2/ Surveyed in 1962.

3/ Surveyed in 1971. A surfing site is defined as "a specific wave-breaking zone caused by a shoal and having sufficient consistency to be identified as a surfable riding area, either seasonally or in a combination of seasons, e.g., Queen's Surf, Waikiki."

4/ Safe, clean, accessible, and generally suitable for swimming.

Source: Hawaii State Department of Transportation, Harbors Division, Small Craft Mooring Facilities Utilization Report (quarterly); Hawaii State Department of Planning and Economic Development, Hawaii's Shoreline (1965), p. 7; Surfing Education Association, The 1971 Statewide Surfing Site Survey, Vol. 1, p. 93.

Table 230.-- COUNTY TENNIS FACILITIES: 1982 TO 1984

[As of December 31]

Island	Locations			Courts		
	1982	1983	1984	1982	1983	1984
State total ...	81	86	88	249	259	265
Hawaii	21	21	21	88	45	45
Maui	10	12	12	32	32	32
Lanai	1	1	1	2	2	2
Molokai	1	1	1	2	2	2
Oahu	39	41	43	146	154	160
Kauai	9	10	10	22	24	24

Source: Compiled by the Hawaii State Department of Planning and Economic Development from the county departments of parks and recreation.

Table 231.-- HONOLULU MARATHON REGISTRANTS, FINISHERS AND WINNING TIMES: 1973 TO 1985

Year	Number of registrants	Number of finishers	Winning time (hr., min., sec.)	
			Men	Women
1973	162	151	2:27:34	3:25:31
1974	347	297	2:23:02	3:01:59
1975	750	706	2:17:24	2:49:24
1976	1,670	1,443	2:20:37	2:44:44
1977	3,500	2,900	2:18:38	2:48:08
1978	5,580	5,587	2:17:05	2:43:10
1979	6,609	6,512	2:16:13	2:40:07
1980	6,716	6,630	2:16:55	2:35:26
1981	7,270	7,170	2:16:54	2:33:24
1982	12,275	10,023	2:15:30	2:41:10
1983	10,847	8,434	2:20:18	2:41:25
1984	10,653	8,166	2:16:25	2:42:49
1985	9,310	8,287	2:12:08	2:35:51

Source: Honolulu Marathon Association, records.

Table 232.-- TRANSPACIFIC YACHT CLUB'S HONOLULU RACE ENTRIES AND WINNING TIMES: 1975 TO 1985

[The Honolulu Race, sponsored by the Transpacific Yacht Club of Los Angeles, is run biennially between San Pedro, California, and Diamond Head Lighthouse, a great circle distance of 2,217 nautical miles]

Year	Boats entered	Winning times (days, hours, minutes, seconds)	
		Elapsed	Corrected
1975	65	9:23:54:51	7:22:29:05
1977	66	8:11:01:45	8:11:29:24
1979	80	11:18:01:04	11:14:42:51
1981	70	8:11:02:31	7:21:44:43
1983 1/ ...	66	9:01:53:48	7:22:55:15
1985	65	13:06:31:19	9:14:07:40

1/ A catamaran, not officially entered in the race, recorded an elapsed time of 7:7:30:56.

Source: Jack Smock, Transpac, A History of the Great Race to Honolulu ... (San Diego: The Transpacific Yacht Club and the Maritime Museum Association of San Diego, 1980), pp. 470, 497-498, 521-522, 552, and 669; The Transpacific Yacht Club, 1982-83 Transpacific Yacht Club Year Book (1983); Honolulu Advertiser, July 12, 1983, p. B-1, July 4, 1985, p. E-3, and July 19, 1985, p. G-3; Honolulu Star-Bulletin, July 15, 1983, p. C-3; Sunday Star-Bulletin and Advertiser, July 10, 1983, p. F-1.

Table 233.-- PROFESSIONAL BASEBALL (HAWAII ISLANDERS): 1983 TO 1985

Season	Games					Home dates	
	Number played	Won	Lost	Percent won	Ahead or behind	Number	Attendance
1983:							
First half	72	32	40	.444	-13.5	36	57,506
Second half ...	71	41	30	.577	-2.5	36	88,366
1984:							
First half	71	42	29	.592	-0.5	31	57,247
Second half ...	69	45	24	.652	+14	32	87,376
Div. playoffs .	3	3	-	1.000	...	-	-
Champ. series .	2	-	2	.000	...	-	-
1985:							
First half	71	42	29	.592	+4.5	32	50,885
Second half ...	72	42	30	.583	-1	30	83,979
Div. playoffs .	3	-	3	.000	-3	1	2,281

Source: Hawaii Islanders, Inc., records.

Table 234.-- TOTAL ATTENDANCE AT FOOTBALL BOWL GAMES: 1982-1983 TO 1984-1985 SEASONS

Seasons	Aloha Bowl	Hula Bowl	Pro Bowl
1982-1983	30,002	39,456	49,883
1983-1984	37,212	26,829	47,482
1984-1985	37,996	25,890	48,124

Source: Hawaii State Department of Accounting and General Services, Stadium Authority, data provided March 13, 1985.

Table 235.-- VARSITY SPORTS AT THE UNIVERSITY OF HAWAII-MANOA: 1980-1981 TO 1984-1985

[Data limited to games played against four-year collegiate teams]

Sport and school year	All games			Home games	
	Won	Lost	Tied	Home dates	Attendance
Baseball: 1/					
1980-1981	50	16	-	38	40,972
1981-1982	59	17	-	42	63,846
1982-1983	47	20	-	36	51,133
1983-1984	48	22	1	42	104,177
1984-1985	56	31	-	61	106,526
Basketball: 2/					
1980-1981	14	13	-	18	83,785
1981-1982	17	10	-	19	73,869
1982-1983	17	11	-	18	72,343
1983-1984	12	16	-	16	59,239
1984-1985	10	18	-	19	75,070
Football:					
1980-1981	8	3	-	8	342,862
1981-1982	9	2	-	8	340,261
1982-1983	6	5	-	8	336,193
1983-1984	5	5	1	8	339,138
1984-1985	7	4	-	9	411,884

1/ Including the Rainbow Easter Tournament and post-season play.
2/ Including the Rainbow Classic.
Source: University of Hawaii, Office of Intercollegiate Athletics, Sports Information Office, records.

Table 236.-- PUBLIC HIGH SCHOOL SPORTS: 1983-1984 AND 1984-1985 SEASONS

Sport	Players	Games 1/	Attendance	Expenditure 2/ (dollars)
1983-1984:				
Baseball ..	Boys	342	64,390	146,741
Basketball	Boys and girls	842	108,525	352,725
Football ..	Boys	242	316,865	467,878
1984-1985:				
Baseball ..	Boys	348	65,485	168,425
Basketball	Boys and girls	864	118,725	372,600
Football ..	Boys	248	346,075	489,950

1/ Junior varsity and varsity games, based on published schedules of sports from all leagues. Data exclude pre-season and post-season games.

2/ Data on expenditures and encumbrances reflect both general and trust funds.

Source: Hawaii State Department of Education, Office of Instructional Services, Athletics Program, letters dated January 23, 1985 and December 13, 1985.

Table 237.-- DOG LICENSES ISSUED, BY ISLANDS: 1979 TO 1984

[Dogs licensed on an annual basis through May 27, 1980 and biennially thereafter]

Year	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
1979	46,450	4,682	4,706	111	383	34,954	1,614
1980	61,115	6,069	4,820	122	398	48,407	1,299
1981	46,706	5,532	4,349	140	393	35,081	1,211
1982	25,617	1,682	1,500	32	62	20,845	1,496
1983	41,566	3,397	3,454	98	203	33,597	817
1984	19,661	1,974	1,372	38	119	15,832	326

Source: Compiled by the Hawaii State Department of Planning and Economic Development from the County Departments of Finance.

Section 8

ELECTIONS

This section presents data on election districts, registered voters, votes cast, campaign expenditures, elected officials, and legislative activity.

About 419,000 persons were registered to vote in the general election of November 6, 1984, and more than 349,000 actually voted. The number voting amounted to 46 percent of the 755,000 Hawaii residents of voting age at that time. The latter figure included aliens, inmates of mental and penal institutions, and members of the armed forces and their dependents, groups that are either ineligible or unlikely to vote in Island elections. Among registered voters, females outnumbered males and Democrats were far more numerous than Republicans. Campaign expenditures for the 1984 primary and general elections (other than for federal offices) exceeded $6.2 million.

Hawaii has 2 Congressional, 25 Senatorial, 51 Representative, and 9 Councilmanic districts. It also contains 15 Soil Conservation districts, 30 active Neighborhood Board districts, and 276 election precincts.

Elective offices in Hawaii include the President and Vice President, two U.S. Senators, two U.S. Representatives, the Governor and Lieutenant Governor, 25 State Senators, 51 State Representatives, and various county officials. Persons of Hawaiian blood also vote for the Board of Trustees of the Office of Hawaiian Affairs. The minimum voting age for all races is 18 years.

The 1985 State Legislature, with 76 members, included 62 males, 35 persons under 40 years of age, 29 persons of Japanese ancestry, 15 persons born in places other than Hawaii, and 61 Democrats.

In its 1985 regular session, the State Legislature considered 3,147 bills; 332 were passed and 306 became law. The Legislature also considered 971 resolutions, of which 320 were adopted.

The official results of primary, general, and special elections are published by the Office of the Lieutenant Governor. Additional information is often available from the various County clerks. Earlier figures for Hawaii appear in Historical Statistics of Hawaii, Section 24. National statistics appear in the Statistical Abstract of the United States: 1985, Section 9.

Table 238.-- ELECTION DISTRICTS AND POPULARLY ELECTED OFFICIALS: NOVEMBER 1982 AND 1984

Office	Election districts		Officials to be elected 1/		Total elected officials, including holdover	
	1982	1984	1982	1984	1982	1984
Federal offices:						
President and Vice President	...	...	-	2	2	2
U.S. Senate	...	...	1	-	2	2
U.S. House of Representatives	2	2	2	2	2	2
State offices:						
Governor and Lt. Governor	...	...	2	-	2	2
State Senate	25	25	13	13	25	25
State House of Representatives	51	51	51	51	51	51
Board of Education	2	2	-	13	13	13
Office of Hawaiian Affairs	...	...	7	4	9	9
Soil and water conservation dist. 2/	15	15	...	...	45	45
County offices:						
Mayor	...	...	2	3	4	4
Council:						
Hawaii	...	...	-	9	9	9
Maui	...	...	-	9	9	9
Honolulu	9	9	9	-	9	9
Kauai	...	...	7	7	7	7
Prosecuting Attorney	...	...	-	3	3	3
Neighborhood Boards 3/	28	28	-	-	416	416
Precincts	299	276	-	-	-	-

1/ Including vacancies to be filled.

2/ Three seats are elected and two are appointed for each district. Elections are an ongoing process.

3/ There are 28 active districts out of 33 areas. Elections are conducted every other year in odd-numbered years.

Source: Office of the Lieutenant Governor, October 9, 1984.

Table 239.-- POPULATION OF VOTING AGE AND PERCENT VOTING: 1960 TO 1984

[As of November. Resident population 20 years old and over through 1970 and 18 years and over in 1972 and later years. Includes armed forces stationed in Hawaii]

Year	Persons of voting age	Percent casting votes		Sex and age	Persons of voting age
		For Presidential Electors	For U.S. Representatives		
1960 ..	371,000	49.7	49.2	Male, 1984	387,000
1962 ..	390,000	(X)	49.9	18 to 24 years	77,000
1964 ..	404,000	51.3	56.9	25 to 44 years	172,000
1966 ..	417,000	(X)	49.9	45 to 64 years	91,000
1968 ..	439,000	53.8	55.3	65 years and over .	47,000
1970 ..	473,000	(X)	44.0		
1972 ..	547,000	49.4	50.3	Female, 1984	368,000
1974 ..	586,000	(X)	44.3	18 to 24 years	61,000
1976 ..	624,000	46.7	47.0	25 to 44 years	164,000
1978 ..	657,000	(X)	38.6	45 to 64 years	96,000
1980 ..	696,000	43.6	40.3	65 years and over .	47,000
1982 1/	725,000	(X)	41.1		
1984 ..	755,000	...	...		

X Not applicable.

1/ Revised from Data Book 1983, table 348.

Source: U.S. Bureau of the Census, "Projections of the Population of Voting Age for States: November 1980," Current Population Reports, Series P-25, No. 879, March 1980; "Projections of the Population of Voting Age for States: November 1982," Current Population Reports, Series P-25, No. 916, July 1982; and "Projections of the Population of Voting Age for States: November 1984," Current Population Reports, Series P-25, No. 948, April 1984.

Table 240.-- PERCENT OF CIVILIAN POPULATION REGISTERED OR VOTING IN ELECTIONS: 1980 TO 1984

[Based on July 1 estimates of civilian population, including military dependents, aliens, and persons under 18 years of age]

Election	Percent registered			Percent voting		
	1980	1982	1984	1980	1982	1984
Primary	42.2	40.9	40.6	29.0	28.9	22.6
General	44.2	43.0	42.7	34.9	34.5	35.6

Source: Calculated from Office of the Lieutenant Governor, Result of Votes Cast for each election, and Hawaii State Department of Planning and Economic Development, Statistical Memorandum 85-3.

Table 241.-- REPORTED VOTING AND REGISTRATION, BY SEX: NOVEMBER 1984

[Number 18 and over in thousands. Percentages based on a sample]

Race	All persons 18 years old and over	Reported registered		Reported voted	
		Percent	Standard error	Percent	Standard error
Total 1/	755	59.2	1.7	54.5	1.7
Percent	100.0	(X)	(X)	(X)	(X)
Male	48.3	58.0	2.4	54.0	2.4
Female	51.9	60.2	2.3	55.0	2.4
White	29.7	67.3	3.0	60.8	3.1

X Not applicable.

1/ For the United States as a whole, 68.3 ± 0.2 percent of the voting-age population reported they had registered, and 59.9 ± 0.2 percent reported they had voted.

Source: U.S. Bureau of the Census, "Voting and Registration in the Election of November 1984 (Advanced Report)," Current Population Reports, Population Characteristics, Series P-20, No. 397, January 1985, p. 7.

Table 242.-- REGISTERED VOTERS AND VOTES CAST IN PRIMARY, GENERAL, AND SPECIAL ELECTIONS: 1970 TO 1984

Type and date of election	Registered voters 1/			Votes cast 2/	
	Both sexes	Male	Female	Number	Percent of reg. voters
Primary elections:					
1970: Oct. 3	282,470	(NA)	(NA)	202,401	71.7
1972: Oct. 7	326,906	(NA)	(NA)	203,160	62.1
1974: Oct. 5	333,527	(NA)	(NA)	235,982	70.8
1976: Oct. 2	353,249	175,276	177,973	251,457	71.2
1978: Oct. 7	387,673	190,796	196,877	289,029	74.6
1980: Sept. 20 ...	384,858	186,982	197,876	264,041	68.6
1982: Sept. 18 ...	385,307	185,763	199,544	272,691	70.8
1984: Sept. 22 ...	398,858	190,525	208,333	221,957	55.6
General elections:					
1970: Nov. 3	291,681	146,630	145,051	247,740	84.9
1972: Nov. 7	337,837	169,896	167,941	286,593	84.8
1974: Nov. 5	343,404	171,072	172,332	272,545	79.4
1976: Nov. 2	363,045	180,265	182,780	309,025	85.1
1978: Nov. 7	395,262	194,412	200,850	292,690	74.0
1980: Nov. 4	402,795	195,804	206,991	318,026	79.0
1982: Nov. 2	405,005	195,259	209,746	325,459	80.4
1984: Nov. 6	418,904	200,424	218,480	349,253	83.4
Special elections: 3/					
1978: May 20	344,952	169,787	175,165	119,250	34.6
1980: Nov. 4	54,083	24,465	29,618	42,848	79.2
1982: Nov. 2	63,950	29,078	34,872	42,390	66.3
1984: Nov. 6	59,204	26,135	33,069	43,064	72.7

NA Not available.

1/ Data by sex not available for primary elections before 1976.

2/ Number voting excludes unregistered votes cast (overseas and nonresident).

3/ Constitutional convention of 1978; Office of Hawaiian Affairs, 1980, 1982, and 1984.

Source: Office of the Lieutenant Governor, Result of Votes Cast for each election, and records.

Table 243.-- REGISTERED VOTERS AND VOTES CAST IN PRIMARY AND GENERAL ELECTIONS, BY COUNTIES: 1984

[Excludes persons registered for only the Office of Hawaiian Affairs election but not for the regular primary or general elections]

Election and county	Registered voters			Votes cast	
	Both sexes	Male	Female	Number	Percent of reg. voters
PRIMARY ELECTION					
State total ..	398,858	190,525	208,333	221,957	55.6
Hawaii	49,077	23,571	25,506	34,545	70.4
Maui	34,880	16,759	18,121	15,905	45.6
Honolulu	292,201	139,026	153,175	153,267	52.5
Kauai	22,700	11,169	11,531	18,232	80.3
Overseas	-	-	-	8	...
GENERAL ELECTION					
State total ..	418,904	200,424	218,480	349,253	83.4
Hawaii	50,563	24,332	26,231	41,396	81.9
Maui	36,660	17,654	19,006	29,651	80.9
Honolulu	308,423	146,979	161,444	258,811	83.9
Kauai	23,258	11,459	11,799	19,395	83.4

Source: Office of the Lieutenant Governor, Results of Votes Cast, Primary Election, Saturday, September 22, 1984, State of Hawaii, pp. 11, 142, and 161, and Results of Votes Cast, General Election, Tuesday, November 6, 1984, Statewide Summary Report, pp. 20, and 253.

Table 244.-- AGE AND SEX OF REGISTERED VOTERS: NOVEMBER 6, 1984

[Includes persons registered for either the regular election, OHA election, or both]

Age	Both sexes		Male	Female
	Number	Percent		
All ages	419,592	100.0	200,780	218,812
18 or 19 years	10,656	2.5	4,692	5,964
20 to 29 years	79,675	19.0	35,462	44,213
30 to 39 years	95,909	22.9	44,814	51,095
40 to 49 years	68,832	16.4	33,113	35,719
50 to 64 years	101,430	24.2	49,152	52,278
65 years and over	63,034	15.0	33,533	29,501
Not reported	56	0.0	14	42

Source: Office of the Lieutenant Governor, printout dated November 15, 1984.

Table 245.-- PARTY OF VOTES CAST IN PRIMARY ELECTIONS: 1974 TO 1984

Primary election	Total votes cast	Democratic	Republican	Other parties	Nonpartisan	Invalidated
1974	235,982	199,992	35,867	123	-	-
1976	251,457	215,037	35,495	568	357	-
1978 1/ ..	289,029	262,531	25,642	211	548	-
1980	264,041	250,226	10,628	1,089	1,881	217
1982	272,691	245,426	13,262	12,681	1,013	309
1984	221,957	177,102	43,306	695	455	399

1/ Party data add to 288,932 rather than reported total.

Source: Office of the Lieutenant Governor, Result of Votes Cast, Primary Election for years shown, and records.

Table 246.-- PARTY OF VOTES CAST IN PRIMARY ELECTION, BY COUNTIES: SEPTEMBER 22, 1984

Party	State total 1/	Hawaii County	Maui County	City and County of Honolulu	Kauai County
Total votes cast	221,957	34,545	15,905	153,267	18,232
Democratic	177,102	32,179	12,256	115,060	17,600
Libertarian	695	63	71	548	13
Republican	43,306	2,269	3,527	36,934	575
Nonpartisan	455	-	-	441	14
Invalidated	399	34	51	284	30

1/ Includes 8 overseas votes (7 Democratic and 1 Republican), not listed separately.

Source: Office of the Lieutenant Governor, Results of Votes Cast, Primary Election, Saturday, September 22, 1984, State of Hawaii, p. 161.

Table 247.-- NUMBER OF PRECINCTS AND REGISTERED VOTERS, BY ISLANDS: NOVEMBER 6, 1984

Island	Number of precincts	Registered voters	Voters per precinct
State total	276	418,904	1,518
Hawaii	50	50,563	1,011
Maui	30	32,719	1,091
Lanai	1	905	905
Molokai: Molokai District	4	2,927	732
Kalawao District	1	109	109
Oahu 1/	172	308,423	1,793
Kauai	17	23,127	1,360
Niihau	1	131	131

1/ Including the Northwestern Hawaiian Islands, part of the 5th Precinct of the 20th Representative District, in Waimanalo, Oahu.

Source: Office of the Lieutenant Governor, records.

Table 248.-- VOTES CAST FOR MAJOR OFFICES: GENERAL ELECTIONS, 1974 TO 1984

Office and election year	Total votes cast	Democrat		Republican		Other parties: votes
		Candidate	Votes	Candidate	Votes	
PRESIDENT						
1976	291,301	Carter	147,375	Ford	140,003	3,923
1980	303,287	Carter	135,879	Reagan	130,112	37,296
1984	335,846	Mondale	147,154	Reagan	185,050	3,642
U.S. SENATOR						
1974	250,221	Inouye, D. ..	207,454	None	-	42,767
1976	302,092	Matsunaga ...	162,305	Quinn	122,724	17,063
1980	288,006	Inouye, D. ..	224,485	Brown	53,068	10,453
1982	306,410	Matsunaga ...	245,386	Brown	52,071	8,953
REPRESENTATIVE TO CONGRESS, DISTRICT 1						
1974	120,617	Matsunaga ...	71,552	Paul	49,065	-
1976	137,602	Heftel	60,050	Rohlfing ...	53,745	23,807
1978	115,412	Heftel	84,552	Spillane ...	24,470	6,390
1980	123,181	Heftel	98,256	Noble	19,819	5,106
1982	149,907	Heftel	134,779	None	-	15,128
1984	138,865	Heftel	114,884	Beard	20,608	3,373
REPRESENTATIVE TO CONGRESS, DISTRICT 2						
1974	138,810	Mink	86,916	Coray	51,894	-
1976	156,099	Akaka	124,116	Inouye, H. .	23,917	8,066
1978	137,957	Akaka	118,272	Isaak	15,697	3,988
1980	157,380	Akaka	141,477	None	-	15,903
1982	148,008	Akaka	132,072	None	-	15,936
1984	136,741	Akaka	112,377	Shipley	20,000	4,364
GOVERNOR						
1974	249,650	Ariyoshi ...	136,262	Crossley ...	113,388	-
1978	281,587	Ariyoshi ...	153,394	Leopold	124,610	3,583
1982	312,853	Ariyoshi ...	141,043	Anderson ...	81,507	89,303

Continued on next page.

Table 248.-- VOTES CAST FOR MAJOR OFFICES: GENERAL ELECTIONS, 1974 TO 1984 -- Con.

Office and election year	Total votes cast	Democrat		Republican		Other parties: votes
		Candidate	Votes	Candidate	Votes	
MAYOR OF HONOLULU						
1976	224,665	Fasi	137,911	Clement	82,595	4,159
1980	219,408	Anderson, E.	152,240	Schweigert .	58,155	9,013
1984	253,853	Anderson, E.	117,841	Fasi	132,875	3,137

Source: Office of the Lieutenant Governor, Result of Votes Cast, General Election, State of Hawaii for 1974-1984.

Table 249.-- REGISTERED VOTERS AND VOTES CAST FOR THE BOARD OF TRUSTEES OF THE OFFICE OF HAWAIIAN AFFAIRS, BY COUNTIES: NOVEMBER 6, 1984

County	Registered voters			Votes cast	
	Both sexes	Male	Female	Number	Percent of reg. voters
State total	59,204	26,135	33,069	43,064	72.7
Hawaii	8,434	3,714	4,720	6,483	76.9
Maui	6,237	2,849	3,388	4,615	74.0
Honolulu	41,154	17,997	23,157	29,333	71.2
Kauai	3,379	1,575	1,804	2,633	77.9

Source: Office of the Lieutenant Governor, Results of Votes Cast, General Election, Tuesday, November 6, 1984, Statewide Summary Report, pp. 195 and 254.

Table 250.-- VOTES CAST FOR MAJOR OFFICES, BY COUNTIES: GENERAL ELECTION, 1984

Office, candidate and party	State total 1/	County of Hawaii	County of Maui	City and County of Honolulu	County of Kauai
PRESIDENT					
Reagan (R)	185,050	20,707	14,720	140,258	9,249
Mondale (D)	147,154	17,866	12,966	107,404	8,862
Other candidates	3,642	570	381	2,470	221
REPRESENTATIVE TO CONGRESS, DISTRICT 1					
Heftel (D)	114,884	-	-	114,834	-
Beard (R)	20,608	-	-	20,572	-
Other candidates	3,373	-	-	3,369	-
REPRESENTATIVE TO CONGRESS, DISTRICT 2					
Akaka (D)	112,377	27,464	18,614	52,716	13,546
Shipley (R)	20,000	3,905	3,273	11,709	1,094
Other candidates	4,364	1,164	630	2,162	406
MAYOR, COUNTY OF HAWAII					
Carpenter (D)	31,084	31,084	-	-	-
Geiger (R)	7,177	7,177	-	-	-
MAYOR, CITY AND COUNTY OF HONOLULU					
Fasi (R)	132,875	-	-	132,875	-
Anderson (D)	117,841	-	-	117,841	-
Other candidates	3,137	-	-	3,137	-
MAYOR, COUNTY OF KAUAI					
Kunimura (D)	10,241	-	-	-	10,241
Sarita (R)	8,118	-	-	-	8,118

1/ Includes overseas voters, not shown separately.

Source: Office of the Lieutenant Governor, Results of Votes Cast, General Election, Thursday, November 6, 1984, Statewide Summary Report, pp. 3, 6, 7, 20, and 30.

Table 251.-- CAMPAIGN EXPENDITURES: 1984 ELECTIONS

[Dollars]

Election and office	All candidates	Democrats	Republicans	All others
PRIMARY 1/				
All races reported .	3,653,367.68	3,134,798.17	517,642.96	926.55
State Senator	569,146.71	433,634.49	135,512.22	-
State Representative	1,022,648.72	817,921.81	204,701.91	25.00
Mayor	1,464,456.52	1,372,603.93	91,038.05	814.54
Prosecuting Attorney	71,604.06	37,295.57	34,308.49	-
County Council	525,511.67	473,342.37	52,082.29	87.01
GENERAL 2/				
All races reported .	2,558,681.70	1,555,543.45	866,432.92	136,705.33
State Senator	352,550.19	202,767.34	149,782.85	-
State Representative	499,843.96	324,647.86	175,196.10	-
Mayor	1,192,374.69	783,088.51	409,140.96	145.22
Prosecuting Attorney	150,221.52	64,929.61	85,291.91	-
County Council	227,131.23	180,110.13	47,021.10	-
Board of Education	79,302.34	-	-	79,302.34
Office of Hawaiian Aff. .	57,257.77	-	-	57,257.77
TOTAL 3/				
All races reported .	6,212,049.38	4,690,341.62	1,384,075.88	137,631.88
State Senator	921,696.90	636,401.83	285,295.07	-
State Representative	1,522,492,68	1,142,569.67	379,898.01	25.00
Mayor	2,656,831.21	2,155,692.44	500,179.01	959.76
Prosecuting Attorney	221,825.58	102,225.18	119,600.40	-
Council Council	752,642.90	653,452.50	99,103.39	87.01
Board of Education	79,302.34	-	-	79,302.34
Office of Hawaiian Aff. .	57,257.77	-	-	57,257.77

1/ Expenditures from January 1, 1984, through September 22, 1984.
2/ Expenditures from September 23, 1984, through December 31, 1984.
3/ Total includes primary and general expenditures, and supplemental expenditures made after election days through December 31, 1984.

Source: State Campaign Spending Commission, data provided May 3, 1985.

Table 252.-- NEIGHBORHOOD BOARD ELECTIONS, FOR OAHU: 1981 TO 1985

Year	Number of boards		Board seats elected	Ballots mailed	Voters (ballots cast)	Votes cast
	In operation, Dec. 31	Holding elections				
1981 1/ ..	28	28	416	294,735	48,745	178,042
1983	28	28	416	231,622	62,573	235,275
1985 2/ ..	30	30	438	261,222	76,674	341,458

1/ First simultaneous election, May 1, 1981; all mail-in ballots.

2/ As of July 1. A special election was held in addition to the regular biennial elections.

Source: Neighborhood Commission, City and County of Honolulu, records.

Table 253.-- PARTY MEMBERSHIP OF COUNTY COUNCILS: 1983 AND 1985

[As of January]

County	Total seats	Democrats		Republicans		Other parties or vacant	
		1983	1985	1983	1985	1983	1985
All counties	34	29	29	5	5	-	-
Hawaii	9	8	7	1	2	-	-
Maui	9	8	8	1	1	-	-
Honolulu	9	7	7	2	2	-	-
Kauai	7	6	7	1	-	-	-

Source: The Chamber of Commerce of Hawaii, Who's Who in Government, State of Hawaii for 1983-1984 (pp. 27-34) and 1985-1986 (pp. 30-37).

Table 254.-- LENGTH OF LEGISLATIVE SESSIONS: 1980 TO 1985

Year	Regular sessions		Special sessions	
	Date convened	Length 1/	Date convened	Length 1/
1980	Jan. 16	104	None	-
1981	Jan. 21	100	June 22	6
1982	Jan. 20	99	May 5	2
1983	Jan. 19	94	Sept. 1	2
1984	Jan. 18	93	July 9	5
1985	Jan. 16	97	None	-

1/ Calendar days, including Saturdays, Sundays, holidays, and mandatory five-day recess required by Art. III, sec. 10, of the Hawaii Constitution.

Source: Legislative Reference Bureau, Hawaii Legislators' Handbook, 8th edition (March 1983), Appendix E, pp. 98-100, as corrected, and records.

Table 255.-- PARTY MEMBERSHIP OF THE STATE LEGISLATURE: 1975 TO 1985

Regular session	House of Representatives				Senate			
	Total	Demo-crats	Repub-licans	Vacant seats	Total	Demo-crats	Repub-licans	Vacant seats
1975 ..	51	35	16	-	25	18	7	-
1977 1/	51	41	10	-	25	18	7	-
1979 ..	51	42	9	-	25	18	7	-
1981 ..	51	39	12	-	25	17	8	-
1983 ..	51	43	8	-	25	20	5	-
1985 ..	51	40	11	-	25	21	4	-

1/ Forty Democrats and 11 Republicans were elected to the House of Representatives in the general election of November 1976. In January 1977, however, one Republican changed his affiliation to Democrat.

Source: Session Laws of Hawaii, 1975-1985.

Table 256.-- COMPOSITION OF THE 1985 HAWAII STATE LEGISLATURE

Subject	House of Representatives			Senate		
	Total	Democrats	Republicans	Total	Democrats	Republicans
All members	51	40	11	25	21	4
Island of residence:						
Hawaii	6	5	1	3	2	1
Maui	3	3	-	2	2	-
Lanai	-	-	-	-	-	-
Molokai	1	-	1	-	-	-
Oahu	39	30	9	19	16	3
Kauai	2	2	-	1	1	-
Niihau	-	-	-	-	-	-
Year born:						
1924 or earlier	1	1	-	4	3	1
1925 to 1934	9	5	4	6	4	2
1935 to 1944	11	8	3	10	9	1
1945 to 1954	27	23	4	5	5	-
1955 or later	3	3	-	-	-	-
Sex:						
Male	43	36	7	19	17	2
Female	8	4	4	6	4	2
Ethnic stock:						
Caucasian, except Portuguese	8	5	3	5	3	2
Chinese	3	3	-	2	2	-
Filipino	4	4	-	1	1	-
Japanese	18	17	1	11	10	1
Portuguese	2	1	1	1	-	1
Other (unmixed) 1/ ..	-	-	-	-	-	-
Mixed: Part-Hawaiian	9	7	2	5	5	-
Mixed: Non-Hawaiian .	7	3	4	-	-	-
Place of birth:						
Hawaii	39	33	6	22	19	3
Mainland U.S.	9	4	5	3	2	1
U.S. terr. or poss. .	-	-	-	-	-	-
Foreign country	3	3	-	-	-	-

1/ Black, Hawaiian, Korean, Puerto Rican, Samoan, or other unspecified ethnic stock.

Source: Office of the Lieutenant Governor, letter dated June 26, 1985.

Table 257.-- LEGISLATIVE BILLS AND RESOLUTIONS, BY DISPOSITION: 1983 TO 1985

Action	1983: regular	1984		1985: regular
		Regular	Special	
House bills:				
Carried over from previous year	-	1,439	-	-
Introduced	1,628	987	1	1,660
Enacted	189	203	1	148
Vetoed 1/	6	13	-	12
Became law 1/	183	187	1	134
Senate bills:				
Carried over from previous year	-	1,369	-	-
Introduced	1,491	760	1	1,487
Enacted	122	109	-	184
Vetoed 1/	4	4	-	12
Became law 1/	118	104	-	172
House resolutions: 2/				
Offered	595	447	1	483
Adopted	302	187	1	210
House concurrent resolutions:				
Offered	203	151	-	154
Adopted	33	42	-	16
Senate resolutions:				
Offered	156	183	-	194
Adopted	65	91	-	88
Senate concurrent resolutions:				
Offered	119	137	-	140
Adopted	11	9	-	6

1/ Excludes bills which passed the Legislature, proposing amendments to the State Constitution: H.B. 1213, H.B. 1947, and S.B. 2072 in the 1984 regular session and H.B. 29 and H.B. 355 in 1985.

2/ 1984 regular session figures revised from Data Book 1984, table 435.

Source: Legislative Reference Bureau, records.

Section 9

GOVERNMENT FINANCES AND EMPLOYMENT

This section presents statistics relating to the revenues, expenditures, debt, and civilian employment of Federal, State and County governments in Hawaii.

Local government is vested in one combined city-county (Honolulu, consisting of the Island of Oahu and several outlying islets), three non-metropolitan counties (Hawaii, Kauai, and Maui), and one area (Kalawao County) administered by the State Department of Health. Separate municipal governments do not exist.

Tax collections by Federal, State and County governments in fiscal 1984 reached $3.66 billion, more than twice the level reported ten years earlier. The 1984 total included $1.98 billion in U.S. taxes, $1.33 billion in State taxes, and $343 million in County taxes, licenses and fees. Individual income taxes accounted for 87 percent of Federal collections and 30 percent of State collections in Hawaii in 1984. State revenue receipts totaled $2.2 billion, chiefly from the General Excise and Use Tax ($640 million), individual income tax ($402 million) and Federal grants-in-aid ($365 million). The largest expenditure item in the State accounts for 1984 was education, with $696 million (out of $2.08 billion) going to the University of Hawaii and public schools and libraries. The counties, in contrast, depended largely on the real property tax (which until mid-1981 was assessed and collected by the State) and grants-in-aid for their revenues, and reported police and fire protection as their largest single expenditure item. Assessed valuation of the State tripled between 1975 and 1985, reaching $51 billion by the end of the period; of this total, $7 billion was exempt from taxation. Public bonded debt outstanding at the end of 1984 exceeded $2.7 billion.

Total government employment in 1984 averaged 92,000, about 6 percent over the 1979 average. The 1984 total included over 32,000 Federal workers, 47,000 persons employed by the State, and 13,000 persons on County payrolls. State civil service employees as of mid-1984 numbered 18,200.

Important sources for statistics on government in Hawaii include the U.S. Census of Governments and various annual publications of the Bureau of the Census, reports of the U.S. Treasury Department, Hawaii State Departments of Accounting and General Services, Budget and Finance, and Taxation, and the County auditors and finance directors, and an annual compilation issued by the Tax Foundation of Hawaii, Government in Hawaii: A Handbook of Financial Statistics. Data extending back to the middle of the 19th century are summarized in Historical Statistics of Hawaii, Section 25. Comparable Mainland statistics appear in the Statistical Abstract of the United States: 1985, Sections 10 and 11.

Table 258.-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS: 1970 TO 1984

[Thousands of dollars. Revised from Data Book 1984, table 262]

Year	All levels	Federal 1/	State and counties 2/		
			Total	State	Counties
1970	1,061,376	602,998	458,378	438,397	15,981
1971	1,105,657	608,051	497,606	480,690	16,916
1972	1,162,700	632,583	530,117	512,047	18,070
1973	1,327,150	735,358	591,792	571,689	20,104
1974	1,512,414	840,089	672,325	650,855	21,470
1975	1,852,804	1,087,520	765,284	743,926	21,358
1976	1,821,934	945,899	876,035	850,639	25,396
1977	2,038,318	1,106,687	931,631	905,949	25,682
1978	2,228,779	1,208,480	1,020,299	986,182	34,117
1979	2,620,194	1,455,225	1,164,969	1,127,677	37,292
1980	2,966,218	1,670,459	1,295,669	1,255,622	40,047
1981	3,245,507	1,826,363	1,419,144	1,371,490	47,655
1982	3,314,107	1,876,628	1,437,479	1,132,699	304,779
1983	3,451,664	1,897,858	1,553,806	1,225,010	328,796
1984	3,655,283	1,980,467	1,674,816	1,331,551	343,265

1/ Fiscal years ended June 30 through 1976 and September 30 thereafter.

2/ Fiscal years ended June 30. Totals include taxes collected from visitors and other nonresidents.

Source: Tax Foundation of Hawaii, Government in Hawaii: A Handbook of Financial Statistics (annual).

Table 259.-- TAX COLLECTIONS RELATIVE TO POPULATION AND PERSONAL INCOME, BY LEVEL OF GOVERNMENT: 1970 TO 1984

[Data include taxes collected in Hawaii from visitors and other nonresidents. Revised from Data Book 1984, table 262]

Year	Per capita collections 1/ (dollars)			Collections as a percent of personal income 2/		
	All levels	Federal 3/	State and counties 4/	All levels	Federal 3/	State and counties 4/
1970 ..	1,376	781	594	29.8	16.9	12.9
1971 ..	1,379	759	621	28.9	15.9	13.0
1972 ..	1,404	764	640	27.8	15.1	12.7
1973 ..	1,558	864	695	28.4	15.8	12.7
1974 ..	1,742	968	775	28.5	15.8	12.7
1975 ..	2,091	1,227	864	32.0	18.8	13.2
1976 ..	2,015	1,046	969	29.3	15.2	14.1
1977 ..	2,220	1,205	1,015	29.2	15.9	13.4
1978 ..	2,329	1,297	1,095	28.7	15.6	13.1
1979 ..	2,749	1,527	1,222	30.2	16.8	13.4
1980 ..	3,061	1,724	1,337	30.2	17.0	13.2
1981 ..	3,309	1,862	1,447	29.8	16.8	13.0
1982 ..	3,324	1,882	1,442	28.6	16.2	12.4
1983 ..	3,390	1,864	1,526	27.5	15.1	12.4
1984 ..	3,519	1,907	1,612	27.0	14.6	12.4

1/ Based on estimated resident population, July 1.

2/ Based on income estimates for calendar years.

3/ Collections data refer to fiscal years ended June 30 through 1976 and September 30 thereafter.

4/ Collection data refer to fiscal years ended June 30.

Source: Calculated from collections data in preceding table, population estimates in DPED Statistical Report 173, and income estimates in U.S. Bureau of Economic Analysis printout dated August 1985.

Table 260.-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS, BY SOURCES: 1974, 1983, AND 1984

[In thousands of dollars]

Source	1974 1/	1983 2/	1984 2/
Total, all levels	1,512,414	3,451,664	3,655,283
Federal collections	840,089	1,897,858	1,980,467
Indiv. income and employment 3/	710,004	1,681,194	1,729,041
Corp. income and excess profits	96,814	154,877	180,576
Estate	11,263	22,830	20,373
Unemployment insurance	4,923	13,181	15,822
Other sources	17,085	25,776	34,656
State collections	650,855	1,225,010	1,331,551
General excise and use	244,555	601,486	639,630
Fuel	29,649	53,636	54,909
Liquor	11,414	9,299	(209)
Tobacco	8,305	17,609	19,949
Insurance	9,534	26,356	26,606
Public service companies	21,167	66,395	59,559
Corporate income 4/	18,166	24,467	36,431
Indiv. income, net income 5/	151,734	347,016	403,076
Inheritance and estate	2,661	6,416	6,652
Unemployment compensation	25,168	67,625	76,297
Other sources	128,501	4,707	8,651
County collections	21,470	328,796	343,265
Real property	-	274,920	289,114
Utility franchise	3,203	18,444	16,966
Motor vehicle weight 6/	12,488	24,835	25,582
Other sources	5,779	10,597	11,602

1/ Fiscal year ended June 30.

2/ Fiscal year ended September 30 for federal collections and June 30 for others. Data for 1983 revised from Data Book 1984, table 263.

3/ Includes withholding, FICA, individual income, and railroad retirement taxes.

4/ Includes payments of estimated taxes less refunds.

5/ Includes withheld and estimated taxes less refunds, and delinquent compensation taxes (repealed January 1, 1958).

6/ Includes State motor vehicle weight tax for 1983 and 1984.

Source: Tax Foundation of Hawaii, Government in Hawaii, 1985, pp. 20 and 36.

Table 261. - ESTIMATED TAX BURDEN FOR A FOUR-PERSON FAMILY ON OAHU: 1984

[Based on a gross family income equivalent to four times the per capita personal income estimated for Hawaii]

Tax category 1/	Amount (dollars)
Total tax burden 2/	16,782
Direct taxes	13,361
Real property	739
Automobile	312
General excise (sales)	1,026
State income	2,579
Federal income	5,831
Social Security	2,874
Indirect taxes (specific taxes)	235
Employment taxes paid by employer	7,730
Social Security	3,003
Unemployment Compensation	667
Workers' Compensation	3,610
Temporary Disability	215
Assumed gross family income	49,584
Net income	32,802

1/ For underlying assumptions, see source.

2/ Based on four times the per capita overall tax burden, including corporate income taxes, and not on the sum of the direct and employment taxes listed in this table.

Source: Tax Foundation of Hawaii, The Tax Burden of the Arnie Aloha Family (August 1985).

Table 262.-- DIRECT TAX BURDENS FOR A MARRIED COUPLE WITH TWO DEPENDENTS, FOR HONOLULU: 1982

[Selected federal, state, and local taxes as a percent of income]

Income level	Total selected taxes 1/	Federal taxes	State and local taxes
$25,000	24.03	15.98	8.04
$50,000	30.39	21.96	8.43

1/ Among 50 cities listed, Honolulu ranked seventh at both income levels.

Source: Michael W. Lawson, "Measuring Tax Burden," Intergovernmental Perspective, Vol. 10, No. 2, Spring 1984, pp. 32-33.

Table 263.-- ESTIMATED STATE AND LOCAL TAXES PAID BY A FAMILY OF FOUR, BY INCOME LEVEL, FOR THE CITY AND COUNTY OF HONOLULU: 1982

[Data based on average family of four (wage earner, spouse, and two children) which owns its own home. Comprises State and local sales, income, auto, and real estate taxes]

Income level	Total tax paid (dollars)	Percent of income
$10,000	480	4.8
$17,000	823	4.8
$25,000	1,967	7.9
$35,000	2,777	7.9
$50,000	4,339	8.7
$75,000	6,814	9.1

Source: Study by District of Columbia Department of Finance and Revenue, cited in Statistical Abstract of the United States: 1985, p. 291.

Table 264.-- STATE REVENUE RECEIPTS: 1983 AND 1984

[In thousands of dollars. Years ended June 30]

Source of revenues	1983: all funds	1984		
		All funds	General funds	Special funds
Total 1/	2,105,599	2,163,163	1,314,538	848,625
Tax revenues	1,214,473	1,320,362	1,184,701	135,660
General excise	601,486	639,630	624,508	15,122
Specific excises 2/	165,483	152,497	108,919	43,577
Individual income	346,951	402,419	402,419	-
Corporate income	24,467	36,431	36,431	-
Unemployment compensation	67,625	76,297	-	76,297
Other taxes, licenses, permits 3/	8,461	13,088	12,424	664
Fines, forfeits, and escheats	9,218	9,520	8,696	824
Federal grants-in-aid	386,805	364,996	10,865	354,131
Revenues from other agencies	8,102	9,327	1,941	7,385
Rents, royalties, land income	101,501	62,356	49,358	12,998
Earnings: general departments	147,547	165,978	47,992	117,986
Earnings: auxiliary enterprises	25,591	25,967	-	25,967
Earnings: public service enterp.	102,216	105,927	-	105,927
Interest earned	1,086	755	755	-
Miscellaneous	109,061	97,976	10,229	87,746

1/ Excludes transfers and repayments except as shown.
2/ Includes public utilities, tobacco, liquor, insurance, and fuel taxes.
3/ Includes franchise tax, inheritance and estate taxes, and conveyance tax.

Source: Tax Foundation of Hawaii, Government in Hawaii, 1985, p. 19.

Table 265.-- STATE OPERATING EXPENDITURES, BY FUNCTION: 1974, 1983, AND 1984

[In thousands of dollars. For years ended June 30. Due to reclassification of funds, 1983 and 1984 data are not exactly comparable to prior years. Data include general, special, and proprietary fund expenditures; Unemployment Trust Fund treated as a special fund. Interfund transfers eliminated to avoid duplication]

Functions	1974	1983	1984
Total	898,884	2,190,649	2,077,673
General government: Control	12,828	42,160	46,029
Staff	29,150	73,693	82,102
Public safety: Police and fire .	219	2,340	1,682
Other protection	34,973	69,710	71,662
Highways	16,166	57,207	49,041
Natural resources	10,564	28,404	17,172
Health and sanitation	16,904	72,270	72,631
Hospitals and institutions	42,131	96,335	114,557
Public welfare	118,154	328,323	328,400
Education: Higher	115,539	261,097	269,796
Public schools	182,470	406,370	405,228
Libraries and other .	8,367	22,753	21,233
Recreation	4,351	13,885	13,827
Utilities and other enterprises	39,240	76,856	76,990
Debt service 1/	62,583	199,213	213,293
Retirement and pension	47,096	123,443	126,006
Employees' health and hosp. insurance	8,131	21,117	24,856
Unemployment compensation	45,240	90,207	78,278
Grants-in-aid to counties	19,448	18,173	18,173
Urban redevelopment and housing	12,594	151,535	11,619
Miscellaneous	11,472	23,696	25,111
Cash capital improvements 2/ ...	61,265	11,861	9,987

1/ Debt service on revenue bonds reimbursable from highway funds included under Highways; from airport and harbor funds under Utilities; from Sand Island receipts, land revolving trust, and Veterans' Home Loan funds under Miscellaneous.

2/ Special funds accounted for $58,695,768 in 1974, $7,300,545 in 1983, and $8,939,166 in 1984.

Source: Tax Foundation of Hawaii, Government in Hawaii, 1985, p. 45.

Table 266.-- OPERATING REVENUES, BY SOURCE, AND OPERATING EXPENDITURES, BY OBJECT, FOR COUNTIES: 1974, 1983, AND 1984

[In thousands of dollars. For years ended June 30]

Subject	1974	1983	1984
OPERATING REVENUES 1/			
Total	235,722	540,965	559,057
Real property taxes	121,862	274,920	289,113
Other taxes	25,708	54,230	53,621
Fees, licenses, permits, and fines	7,619	13,574	14,801
Departmental earnings and charges	13,069	65,177	65,860
State grants	22,252	28,135	26,255
Federal grants	35,490	82,631	87,635
Other sources	9,721	22,299	21,772
OPERATING EXPENDITURES 2/			
Total	221,064	512,146	555,438
General government: Control	3,389	8,162	7,985
Staff	20,863	52,993	62,944
Public safety: Police and fire	52,037	117,501	120,701
Other protection	9,632	19,789	23,909
Highways	15,555	29,229	27,948
Health and sanitation	16,162	44,051	46,172
Public welfare	366	5,680	6,696
Public schools	364	575	597
Recreation	15,744	38,055	39,085
Interest	11,094	21,682	21,552
Bond redemption	14,688	17,961	19,317
Pension and retirement	15,352	45,544	46,770
Economic and urban development	9,995	17,680	21,568
Mass transit	3,940	41,252	38,522
Miscellaneous	7,934	27,994	20,757
Cash capital improvements	23,947	23,999	50,917

Footnotes and source follow next table.

Table 267.-- OPERATING REVENUES, BY SOURCE, AND OPERATING EXPENDITURES, BY OBJECT, FOR COUNTIES: 1984

[In thousands of dollars. For year ended June 30, 1984]

Subject	City and Co. of Honolulu	County of Maui	County of Hawaii	County of Kauai
OPERATING REVENUES 1/				
Total	420,247	47,992	60,633	30,185
Real property taxes	212,270	25,620	37,142	14,082
Other taxes	41,091	4,727	5,241	2,562
Fees, licenses, permits, and fines	10,863	1,932	1,410	596
Departmental earnings and charges	52,551	6,635	4,004	2,670
State grants	8,416	6,783	6,761	4,295
Federal grants	74,775	1,976	5,156	5,728
Other sources	20,281	319	919	252
OPERATING EXPENDITURES 2/				
Total	402,419	56,728	64,882	31,409
General government: Control	4,708	874	1,504	899
Staff	45,528	6,565	6,653	4,198
Public safety: Police and fire	84,275	10,998	18,734	6,694
Other protection	13,526	1,311	3,967	5,101
Highways	15,410	4,290	5,214	3,035
Health and sanitation	37,351	4,893	2,922	1,006
Public welfare	-	3,322	2,406	969
Public schools	-	191	281	125
Recreation	28,635	3,278	5,300	1,872
Interest	15,219	1,098	3,563	1,672
Bond redemption	16,611	1,514	1,177	15
Pension and retirement	33,241	3,039	7,485	3,005
Economic and urban development	21,568	-	-	-
Mass transit	37,180	-	1,342	-
Miscellaneous	13,586	3,200	1,442	2,529
Cash capital improvements	35,579	12,157	2,891	290

1/ Excludes loan, bond, revolving, improvement district, and certain trust funds, water revenues, Hilo Hospital, and Act 95, SLH 1965 special funds.

2/ Excludes certain revolving, bond, and Act 97 fund expenditures, loan repayments, Hilo Hospital special fund, and urban redevelopment land purchases. Interfund transfers omitted to avoid duplication.

Source: Tax Foundation of Hawaii, Government in Hawaii, 1985, pp. 32, 33, 46, and 47.

Table 268.-- NUMBER OF EXEMPTIONS AND ADJUSTED GROSS INCOME REPORTED ON INDIVIDUAL FEDERAL INCOME TAX RETURNS: 1969 TO 1983

Year income was received	Number of returns	Number of exemptions 1/	Adjusted gross income (less deficit)		
			Total ($1,000)	Per return (dollars)	Per exemption (dollars)
1969	290,251	716,153	2,407,048	8,293	3,361
1970	302,426	763,992	2,802,445	9,267	3,668
1971	308,814	809,612	3,010,051	9,747	3,718
1972	318,023	763,985	3,250,608	10,221	4,255
1973	345,211	832,636	3,749,212	10,861	4,503
1974	346,824	805,533	3,957,023	11,409	4,912
1975	358,510	841,976	4,269,028	11,908	5,070
1976	362,956	815,937	4,625,609	12,744	5,669
1977	380,937	847,098	5,218,740	13,700	6,161
1978	403,217	925,125	5,943,659	14,741	6,425
1979	412,922	880,845	6,493,228	15,725	7,372
1980	424,177	936,056	7,320,740	17,259	7,821
1981	437,977	957,338	7,870,617	17,970	8,221
1982	445,953	1,027,743	8,236,603	18,470	8,014
1983 2/	450,097	1,037,030	8,652,808	19,224	8,344

1/ Other than age or blindness.
2/ Preliminary.
Source: U.S. Treasury Department, Internal Revenue Service, Statistics of Income. Individual Income Tax Returns (annual); SOI Bulletin, Summer 1985, p. 93; and records.

Table 269.-- CHARACTERISTICS OF INDIVIDUAL FEDERAL INCOME TAX RETURNS: TAX YEAR 1983

Subject	Number of returns	Amount ($1,000)
All returns and adjusted gross income (AGI) ...	450,097	8,652,808
Salaries and wages	393,300	7,366,153
Dividends after exclusion	66,359	184,607
Tax liability	379,140	1,129,902
Earned income credit	18,243	-4,817
Interest received	313,901	636,123
Unemployment compensation in AGI	19,831	27,670
Itemized deductions	177,997	1,713,958

Source: U.S. Treasury Department, SOI Bulletin, Summer 1985, pp. 93-95.

Table 270.-- INCOME DISTRIBUTION REPORTED ON INDIVIDUAL FEDERAL INCOME TAX RETURNS: 1980 TO 1982

[By year in which income was received. Comparability from year to year is affected by changes in tax laws, changes in return forms, and other factors]

Size of adjusted gross income	1980	1981	1982
All returns	424,177	437,977	445,953
Under $10,000	177,476	176,181	169,298
$10,000 under $15,000	63,452	65,966	68,692
$15,000 under $50,000	167,119	176,430	186,863
$50,000 and over	16,130	19,400	21,100
Median income (dollars)	12,727	13,245	13,907

Source: U.S. Treasury Department, Internal Revenue Service, Statistics of Income, Individual Income Tax Returns for 1980 and 1981, and Individual Master File for 1982, tabulations provided April 12, 1985.

Table 271.-- ADJUSTED GROSS INCOME AND INCOME TAX, BY SIZE OF ADJUSTED GROSS INCOME, FOR INDIVIDUAL FEDERAL INCOME TAX RETURNS: TAX YEAR 1982

Size of adjusted gross income	Number of returns	Adjusted gross income less deficit ($1,000)	Total income tax	
			Number of returns	Amount ($1,000)
All returns	445,953	8,236,603	374,017	1,141,017
Under $10,000	169,298	657,104	100,825	43,132
$10,000 under $15,000 ..	68,692	850,580	67,073	77,484
$15,000 under $50,000 ..	186,863	5,157,928	185,109	684,047
$50,000 and over	21,100	1,570,991	21,010	336,353

Source: U.S. Treasury Department, Internal Revenue Service, Statistics of Income--1982, Individual Master File, provided April 12, 1985.

Table 272.-- NUMBER OF INDIVIDUAL FEDERAL INCOME TAX RETURNS AND ADJUSTED GROSS INCOME, BY ZIP CODE AREAS: 1979 AND 1982

ZIP code	Tax year 1979		Tax year 1982			
	Number of returns	Median AGI (1982 dollars)	Number of returns	Median AGI (dollars)	Mean AGI (dollars)	Mean tax liability (dollars)
State total .	412,922	14,670	426,840	13,990	18,510	2,470
967	226,279	15,220	237,515	14,150	18,330	2,280
968	186,643	14,100	189,325	13,820	18,740	2,710

Source: U.S. Treasury Department, Internal Revenue Service, "Individual Income by ZIP Code Area, 1979 and 1982," SOI Bulletin, Summer 1985, pp. 1-27.

Table 273.-- INTERNAL REVENUE SERVICE OPERATIONS: 1982 TO 1984

Subject	1982	1983	1984
Internal revenue collections ($1,000)	1,876,628	1,897,858	1,980,467
Individual income and employment taxes	1,674,537	1,694,375	1,744,863
Total returns filed	773,116	795,248	789,737
Individual income tax	438,675	443,471	448,974
Returns examined	7,892	7,413	7,019
Individual	6,822	6,576	6,217
Additional tax and penalties recommended after examination ($1,000)	26,045	31,748	39,654
Individual	13,079	13,787	17,742
Costs incurred ($1,000)	7,282	8,415	8,902

Source: Annual Report, Commissioner and Chief Counsel, Internal Revenue Service for 1982, 1983, and 1984.

Table 274.-- RESIDENT INDIVIDUAL STATE INCOME TAX RETURNS: TAX YEARS 1980 TO 1983

Year income was received	Number of resident returns	Adjusted gross income ($1,000)	Net taxable income ($1,000)	Tax liability ($1,000)
1980	423,858	6,506,757	4,275,817	321,738
1981	448,320	6,884,575	4,479,808	336,497
1982	422,535	6,912,014	4,469,031	339,108
1983	424,194	7,088,769	4,695,499	360,551

Source: Hawaii State Department of Taxation, Hawaii Income Patterns Individuals (annual).

Table 275.-- STATE INCOME TAX RESIDENT RETURNS ON INCOME RECEIVED DURING 1983, BY ADJUSTED GROSS INCOME CLASS

Adjusted gross income class	Number of returns 1/	Adjusted gross income 2/ ($1,000)	Net taxable income 3/ ($1,000)	Tax liability ($1,000)
All resident returns ...	424,194	7,088,769	4,695,499	360,551
Taxable resident returns	328,818	6,928,444	4,695,499	360,551
$1,000, under $5,000	45,617	151,818	62,707	2,339
$5,000, under $10,000	60,149	447,778	278,754	15,753
$10,000, under $20,000	89,060	1,289,250	885,996	60,772
$20,000, under $30,000	53,299	1,315,709	914,122	68,503
$30,000, under $40,000	40,898	1,411,885	961,586	75,044
$40,000, under $50,000	20,071	891,314	599,632	48,463
$50,000, under $75,000	16,286	950,295	662,855	56,951
$75,000, under $100,000	1,880	160,499	110,735	10,230
$100,000 and over	1,558	309,896	219,112	22,496
Nontaxable resident returns ..	95,376	160,326	...	...
Loss	3,511	(15,335)	...	...
Under $5,000	84,556	76,734	...	...
$5,000, under $10,000	4,485	31,544	...	...
$10,000 and over	2,824	52,045	...	...

1/ Includes 4,079 returns by dependents with unearned income. Because of the zero-bracket amount add-back provision for such returns, AGI minus all deductions does not equal taxable income in the aggregate.

2/ Total and subtotals exclude losses.

3/ Excludes zero bracket amount of $296,524,800. Conforms to taxable income as defined prior to 1982.

Source: Hawaii State Department of Taxation, Hawaii Income Patterns 1983, Individuals, p. 25.

Table 276.-- MEDIAN ADJUSTED GROSS INCOME OF RESIDENT STATE INCOME TAX RETURNS, BY TYPE OF RETURN: 1973 TO 1983

[In dollars]

Year income was received	Taxable and nontaxable returns			Taxable returns only		
	All returns	Single 1/	Joint	All returns	Single 1/	Joint
1973	7,680	3,262	14,114	9,666	4,650	15,189
1974	7,844	3,774	15,319	9,945	5,193	16,667
1975	8,140	3,890	16,350	10,448	5,406	17,706
1976	(NA)	4,318	(NA)	10,608	5,790	18,705
1977	8,726	4,236	17,716	11,057	5,838	19,718
1978	9,302	4,538	20,276	12,279	6,274	22,335
1979	8,738	4,757	20,073	11,804	6,875	22,636
1980	9,676	5,294	21,510	13,464	7,639	24,980
1981	10,220	5,794	23,321	14,737	8,455	26,881
1982	11,178	6,080	23,737	15,466	9,636	27,285
1983	11,297	6,432	25,047	15,937	10,009	29,076

NA Not available.

1/ Including married filing separately and heads of households.

Source: Hawaii State Department of Taxation, Hawaii Income Patterns, Individuals (annual), and records.

Table 277.-- GENERAL EXCISE AND USE TAX BASE AND COLLECTIONS: 1983 AND 1984

[In thousands of dollars. Data are on a cash basis accounting and may be distorted by cutoffs, out-of-period adjustments (assessments and error corrections), taxpayer reporting in wrong categories, and computer problems]

Source of revenue	Tax base		Tax collections	
	1983	1984	1983	1984
All sources	21,516,615	23,582,079	615,536	669,805
Sources taxed at 4 percent	14,534,443	15,792,041	581,378	631,682
Retailing	7,438,193	8,111,893	297,528	324,476
Services	2,134,524	2,368,415	85,381	94,737
Contracting	1,353,405	1,242,929	54,136	49,717
Theater, amusement, radio	144,095	153,723	5,764	6,149
Interest	184,895	207,430	7,396	8,297
Commissions	268,167	299,754	10,727	11,990
Hotel rentals	876,227	984,518	35,049	39,381
All other rentals	1,594,593	1,759,337	63,784	70,374
Use (4 percent)	277,458	354,619	11,098	14,185
All others	262,886	309,423	10,515	12,377
Sources taxed at other rates 1/ ...	6,982,172	7,790,038	34,158	38,124
Insurance solicitors	214,972	236,086	322	354
Sugar processing	435,579	414,211	2,178	2,071
Pineapple canning	182,967	198,266	915	991
Producing	220,298	242,641	1,101	1,213
Manufacturing	511,823	519,601	2,559	2,598
Wholesaling 2/	3,694,220	4,025,324	18,471	20,127
Services (intermediary)	102,227	128,875	511	644
Use (1/2 percent)................	1,620,086	2,025,034	8,100	10,125

1/ Insurance solicitors at 0.15 percent; others at 0.5 percent.

Source: Hawaii State Department of Taxation, General Excise and Use Tax Base and General Excise and Use Tax Collections (calendar year summary tables).

Table 278.-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS ON ALCOHOL BEVERAGES, BY TYPE OF BEVERAGE: 1983

[$1,000]

Type of beverage	All levels	Federal 1/	State and county		
			Total	State 2/	County 3/
All types	9,989	3,303	6,686	3,754	2,931
Distilled spirits ..	4,969	2,903	2,066	1,160	906
Wine	1,115	339	776	436	340
Beer	3,905	61	3,844	2,159	1,685

1/ Mostly excise taxes, but also may include occupational, rectification, and wholesale taxes. Fiscal year data.

2/ Wholesale ad valorem liquor tax, retail and wholesale general excise tax, penalties and interest. Calendar year data. Data exclude revenues held in escrow pending court decision on dealers' challenge to State liquor law. Partly estimated.

3/ Mostly license fees. Fiscal year data.

Source: Distilled Spirits Council of the United States, Inc., 1983/1984 Public Revenues from Alcohol Beverages (September 1984), pp. 20-24 and 49.

Table 279.-- REAL PROPERTY TAX VALUATIONS: ANNUALLY, 1975 TO 1985

[Thousands of dollars. As of July 1 through 1976 and January 1, 1977 and later years. Government parcels assessed at $1 beginning in 1983; for estimated value of such parcels in 1985, see table 282]

Year	Assessment ratio 1/	Assessor's gross valuation			Valuation for tax rate purposes
		Total	Land	Improvement	
1975 ...	70	15,254,436	8,025,847	7,228,589	10,236,457
1976 ...	60	15,519,576	8,826,837	6,692,739	9,806,352
1977 ...	60	15,951,005	8,886,616	7,064,389	10,114,771
1978 ...	60	17,761,105	9,846,501	7,914,604	11,531,484
1979 ...	60	19,376,848	10,690,826	8,686,022	12,908,172
1980 ...	60	21,881,304	12,074,217	9,807,087	14,831,641
1981 ...	60	25,371,079	13,775,220	11,595,859	17,933,736
1982 ...	60	29,631,825	15,982,660	13,649,165	21,397,832
1983 ...	100	46,659,440	23,603,352	23,056,088	39,508,235
1984 ...	100	49,085,380	24,900,368	24,185,012	41,672,612
1985 ...	100	51,231,020	25,507,708	25,723,312	43,581,421

1/ Percent of fair market value.

Source: Hawaii State Department of Taxation, "Real Property Tax Valuations and Tax Rates" (annual release, through 1980); Honolulu Department of Finance, Real Property Assessment Division, "Real Property Tax Valuations & Tax Rates for the Fiscal Year 1981-82," and "Real Property Tax Valuations, Tax Rates, & Exemptions" (annual, 1982 forward).

Table 280.-- REAL PROPERTY TAX VALUATIONS: 1983 TO 1985

[In thousands of dollars]

Subject	1983	1984	1985
Assessor's gross valuation 1/	46,659,440	49,085,380	51,231,020
Land	23,603,352	24,900,368	25,507,708
Improvement	23,056,088	24,185,012	25,723,312
Exemptions 1/	6,392,649	6,699,195	6,986,720
Assessor's net taxable valuation ..	40,266,791	42,386,185	44,244,300
Half of valuation on appeal	758,556	713,573	662,879
Number of appeals	7,390	5,523	3,355
Valuation for tax rate purposes ...	39,508,235	41,672,612	43,581,421
Land	21,357,040	22,618,164	23,226,482
Improvement	18,151,195	19,054,448	20,354,939
Amount to be raised by taxation 2/	290,152	301,257	324,090

1/ Government parcels assessed at $1; see table 282 for estimated value.

2/ For fiscal years beginning July 1.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, Real Property Tax Valuations, Tax Rates, & Exemptions (annual).

Table 281.-- REAL PROPERTY TAX VALUATIONS, BY COUNTIES: 1985

[In thousands of dollars]

Subject	Honolulu	Maui	Hawaii	Kauai
Assessor's gross valuation 1/	37,548,695	6,015,963	5,128,820	2,537,542
Land	18,690,825	2,793,498	2,701,149	1,322,236
Improvement	18,857,870	3,222,465	2,427,671	1,215,306
Exemptions 1/	5,501,697	514,555	708,773	261,695
Assessor's net taxable valuation .	32,046,998	5,501,408	4,420,047	2,275,847
Half of valuation on appeal	437,272	31,980	63,759	129,868
Number of appeals	1,308	94	609	1,344
Valuation for tax rate purposes ..	31,609,726	5,469,428	4,356,288	2,145,979
Land	16,925,052	2,642,338	2,502,055	1,157,037
Improvement	14,684,674	2,827,090	1,854,233	988,942
Amount to be raised by taxation 2/	235,783	32,496	39,682	16,129

1/ Government parcels assessed at $1; see table 282 for statewide data on estimated value.

2/ For fiscal year beginning July 1.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates, & Exemptions, 1985-1986 Tax Year, State of Hawaii* (July 1985).

Table 282.-- REAL PROPERTY TAX EXEMPTIONS, BY TYPE: JANUARY 1, 1985

Type of exemption	Number	Amount ($1,000)
All exemptions	175,289	16,796,526
Federal government	431	2,101,145
State government	5,933	6,319,841
County government	3,196	1,461,659
Hawaiian Homes Commission	661	54,839
Homes--fee	114,548	3,305,459
Homes--leasehold	35,681	894,304
Churches	1,329	527,627
Government leases	132	203,002
Hospitals	69	277,721
Low-moderate income housing	71	308,253
Charitable organizations	491	336,408
Public utilities	780	296,771
Schools	129	310,446
All others	11,838	399,051

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, Real Property Tax Valuations, Tax Rates & Exemptions, 1985-1986 Tax Year, State of Hawaii (July 1985).

Table 283.-- REAL PROPERTY TAX VALUATIONS, BY LAND USE CLASSES: 1985

[In thousands of dollars]

Land use class	Gross valuation, Jan. 1, 1985 1/			Amounts to be raised by taxation, fiscal 1985-86
	Total	Land	Improvement	
All classes	51,231,020	25,507,708	25,723,312	324,090
Improved residential ...	24,784,397	14,184,131	10,600,266	134,888
Apartment	9,279,452	2,497,395	6,782,057	59,812
Commercial	5,746,319	2,383,752	3,362,567	45,042
Industrial	3,469,441	2,148,139	1,321,302	27,022
Agricultural	2,922,578	2,045,754	876,824	21,238
Conservation	236,263	176,491	59,772	1,659
Hotel/resort	3,420,289	986,241	2,434,048	28,665
Unimproved residential .	1,372,281	1,085,805	286,476	5,764

1/ Government parcels assessed at $1.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, Real Property Tax Valuations, Tax Rates, and Exemptions, 1985-1986 Tax Year, State of Hawaii (July 1985).

Table 284.-- REAL PROPERTY TAX RATES, BY COUNTIES: FISCAL YEAR 1985-1986

[Dollars per $1,000 assessed value]

Land use class	Honolulu	Maui	Hawaii	Kauai
Land:				
Improved residential	6.75	4.75	8.50	6.45
Apartment	6.75	7.00	10.00	8.70
Commercial	9.00	6.00	10.00	8.70
Industrial	9.00	6.00	10.00	8.70
Agricultural	9.00	4.75	10.00	8.70
Conservation	9.00	4.75	10.00	8.70
Hotel/resort	10.00	7.00	10.00	8.70
Unimproved residential	6.75	4.75	10.00	6.45
Improvement:				
Improved residential	6.75	4.75	8.50	5.81
Apartment	6.75	7.00	8.50	8.25
Commercial	9.00	6.00	8.50	8.25
Industrial	9.00	6.00	8.50	8.25
Agricultural	9.00	4.75	8.50	8.25
Conservation	9.00	4.75	8.50	8.25
Hotel/resort	10.00	7.00	8.50	8.25
Unimproved residential	6.75	4.75	8.50	5.81

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, Real Property Tax Valuations, Tax Rates, & Exemptions, 1985-1986 Tax Year, State of Hawaii (July 1985).

Table 285.-- FEDERAL EXPENDITURES IN HAWAII: 1968 TO 1980

[Thousands of dollars. For fiscal years ended June 30 through 1976 and September 30 thereafter]

Fiscal year	Amount	Fiscal year	Amount
1968	848,383	1975	2,060,344
1969	987,814	1976	2,162,221
1970	963,668	1977	2,065,800
1971	1,075,111	1978	2,507,095
1972	1,173,340	1979	2,659,230
1973	1,435,341	1980	3,151,277
1974	1,643,890		

Source: U.S. Office of Economic Opportunity (1968-1975) and U.S. Community Services Administration (1976-1980), Federal Outlays in Hawaii (annual report, 1968-1976) and Geographic Distribution of Federal Funds in Hawaii (annual report, 1977-1980).

Table 286.-- FEDERAL EXPENDITURES IN HAWAII, BY TYPES: FISCAL YEARS 1981 TO 1984

[Millions of dollars]

Type of expenditure	1981	1982	1983 1/	1984
All categories	3,743	3,433	4,055	4,232
Grants to State and local governments ...	443	408	457	459
Salaries and wages	1,430	1,554	1,736	1,809
Direct payments for individuals	1,008	1,106	1,253	1,321
Procurement	850	350	535	577
Other programs	13	15	74	66
Department of Defense	2,116	1,816	2,198	2,324
Other federal agencies	1,627	1,617	1,857	1,908

1/ Revised from Data Book 1984, tables 284 and 285.

Source: U.S. Bureau of the Census, Federal Expenditures by State for Fiscal Year 1984 (March 1985), pp. 1 and 33-36, and corresponding reports for earlier years.

Table 287.-- DIRECT FEDERAL EXPENDITURES OR OBLIGATIONS IN HAWAII, BY COUNTIES: FISCAL YEAR 1984

[Thousands of dollars]

County	All agencies	Department of Defense	All other agencies
State total 1/	4,140,183	2,324,863	1,815,320
City and County of Honolulu ..	3,602,074	2,282,999	1,319,075
Hawaii County	193,488	15,769	177,719
Kalawao County	-	-	-
Kauai County	86,825	12,149	74,676
Maui County	169,277	13,946	155,331
State undistributed	88,519	-	88,519

1/ Figures differ somewhat from those in preceding table, because of treatment of Federal grants to State and local governments. In preceding table, figure represented actual expenditures; in this table, Federal grants generally represent obligations and include payments to State and local governments, and grants to nongovernmental recipients (see source, p. viii).

Source: U.S. Bureau of the Census, Consolidated Federal Funds Report, Fiscal Year 1984, Vol. I: County Areas (March 1985), pp. 14-15.

Table 288.-- STATE GENERAL OBLIGATION BOND DEBT: 1979 TO 1984

[In dollars. As of June 30]

Year	G. O. bond debt	Cash reserve for serial bonds	Net debt
1979	1,343,780,000.00	139,000.00	1,343,641,000.00
1980	1,418,764,000.00	139,000.00	1,418,625,000.00
1981	1,331,326,266.00	139,000.00	1,331,187,266.00
1982	1,464,486,784.00	-	1,464,486,784.00
1983	1,590,350,534.00	-	1,590,350,534.00
1984	1,641,694,840.00	-	1,641,694,840.00

Source: Hawaii State Department of Accounting and General Services, information submitted February 12, 1985.

Table 289.-- PUBLIC BONDED DEBT OF STATE AND COUNTY GOVERNMENTS: 1969 TO 1984

[In millions of dollars. As of December 31]

Year	Total bonded debt 1/	State debt	County debt			
			Honolulu	Maui	Hawaii	Kauai
1969	631.3	423.1	185.8	11.0	8.8	2.7
1970	742.0	536.1	172.5	10.4	17.9	5.1
1971	925.5	679.3	198.8	25.4	17.1	4.9
1972	1,080.4	804.1	215.8	24.6	26.3	9.6
1973	1,219.4	944.1	212.1	23.9	25.0	14.3
1974	1,274.4	1,005.2	198.5	23.2	33.6	13.9
1975	1,435.9	1,185.6	182.8	22.4	31.8	13.3
1976	1,667.2	1,385.9	211.0	21.0	36.9	12.4
1977	1,775.7	1,483.1	226.9	19.6	34.6	11.5
1978	1,916.8	1,607.1	238.5	18.2	37.3	15.7
1979	1,971.9	1,677.6	224.3	16.8	38.3	14.9
1980	2,054.3	1,764.9	207.5	22.4	45.6	13.8
1981	2,217.9	1,883.6	235.5	21.1	46.2	31.4
1982	2,359.5	2,039.3	235.5	19.8	45.8	19.0
1983	2,545.4	2,235.8	219.5	19.0	52.1	19.0
1984	2,715.7	2,391.5	221.0	33.5	50.9	18.8

1/ Outstanding state and county bonds, both general obligation and revenue bonds.

Source: Tax Foundation of Hawaii, Government in Hawaii (annual).

Table 290.-- STATE CIVIL SERVICE: 1982 TO 1984

[Years ended June 30. The State civil service system does not cover elected or appointed officials, public school teachers, university faculty, and other exempt positions]

Subject	1982	1983	1984
Civil service employees, June 30	18,569	18,478	18,202
Department of Education	4,524	4,044	3,875
Department of Health	4,812	4,833	4,729
Department of Social Services and Housing	2,198	2,436	2,472
Department of Transportation	1,899	1,914	1,913
University of Hawaii	1,544	1,556	1,562
All others	3,592	3,695	3,651
Separations	2,748	1,823	2,079
Promotions	966	769	688
Transfers, demotions, and returns after promotions	926	703	760
Classification actions processed	3,581	2,508	2,414
Applications received	25,475	22,971	27,084
Applicants screened	24,554	22,313	27,209
Applicants placed on eligible list	9,956	12,102	10,741
Vacancies filled by competitive and noncompetitive actions	3,544	4,391	2,269

Source: Hawaii State Department of Personnel Services, Annual Report, 1983-84, pp. 5, 6, 7, and 9.

Table 291.-- FEDERAL, STATE, AND COUNTY EMPLOYMENT: ANNUAL AVERAGES, 1979 TO 1984

Year	Total government	Federal			State	Counties
		Total	Defense 1/	Non-defense		
1979	86,500	29,700	18,850	10,800	43,300	13,500
1980	89,050	30,000	18,700	11,250	45,150	13,900
1981	89,000	30,350	19,400	10,900	45,250	13,350
1982	90,300	31,500	20,400	11,100	45,650	13,150
1983 2/	91,300	32,100	20,850	11,250	45,900	13,300
1984	91,700	32,000	20,600	11,400	46,550	13,200

1/ Air Force, Army, and Navy.
2/ Revised from Data Book 1984, table 290.
Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised annually through April 1985.

Table 292.-- STATE SALARY SCHEDULES FOR SELECTED LEVELS: 1983 TO 1985

[In dollars per month. As of July 1. Data refer to lowest and highest rates among six bargaining units and excluded managerial compensation plan employees classified under the salary range schedules]

Salary range	Lowest			Highest		
	1983	1984	1985	1983	1984	1985
SR-4	770	804	933	1,261	1,299	1,360
SR-11	1,028	1,062	1,151	1,637	1,686	1,816
SR-21	1,551	1,598	1,668	2,555	2,632	3,114
SR-31/EM-8 ..	2,425	2,498	2,596	4,034	4,155	4,596

Source: Hawaii State Department of Personnel Services, salary schedules and salary conversion tables.

Section 10

NATIONAL DEFENSE

This section presents statistics relating to the armed forces and their dependents, national guard strength, civilian employment in national defense, veterans, military housing, and expenditures by the armed forces. Further information appears in Sections 1, 2, 6, 12, 13, 14, 22, and 23.

There were approximately 60,800 officers and enlisted men (including 4,500 aboard ships homeported in Hawaii) and 67,100 military dependents in the Islands as of July 1, 1984. This number has been relatively stable in recent years, but at the height of World War II more than 400,000 uniformed personnel were present. The Navy alone accounts for one-third of the current total. More than 11,400 Hawaii residents were in the armed forces worldwide in 1984. The importance of national defense in Hawaii can be further measured by total expenditures ($1.87 billion), military prime contract awards ($639 million), civilian employment (20,600), veterans in civil life (97,000), military personnel receiving retired pay (10,000 men, receiving $11.5 million monthly), military-connected pupils in public schools (20,200), military housing (19,200 units), and land used by the armed forces (over 110,000 acres). Defense expenditures are second only to tourism as a source of income to Hawaii.

The Department of Planning and Economic Development has, since 1959, issued periodic reports on Military Personnel and Dependents in Hawaii. Other published sources include reports of the U.S. Department of Defense, U.S. Bureau of the Census, Administrator of Veterans Affairs, the Hawaii State Department of Labor and Industrial Relations, Department of Defense, and Department of Education, and Hawaii State Census Statistical Areas Committee. Definitions used by these sources frequently differ to some degree, and care is accordingly necessary in comparing data issued by two or more agencies. In mid-1982, for example, the number of armed forces in Hawaii was reported as 53,915 by DOD, 54,879 by the Bureau of the Census, and 61,107 by the local commanding officers reporting to DPED. Historical Statistics of Hawaii, Section 26, includes series on the armed forces dating back to 1795. Section 12 of the Statistical Abstract of the United States: 1985 presents data on national defense and veterans affairs for other States and the entire nation.

Table 293.-- HAWAII RESIDENTS ON ACTIVE DUTY IN THE ARMED FORCES WORLDWIDE: 1970 TO 1985

[As of June 30, unless otherwise specified.
Based on home of record]

Year	Number	Year	Number	Year	Number
1970 1/	15,331	1976	10,600	1982	11,926
1971	13,600	1977	10,640	1983	11,641
1972	11,600	1978	10,715	1984	11,466
1973	10,200	1979 2/	11,069	1985	10,827
1974	10,810	1980	11,851		
1975	10,640	1981	11,927		

1/ For 1950-1969, see the Hawaii State Department of Planning and Economic Development, Military Personnel and Dependents in Hawaii, July 1977 (Statistical Report 120, September 9, 1977), table 5.

2/ March 31.

Source: U.S. Department of Defense, Defense Manpower Data Center, records.

Table 294.-- ARMED FORCES AND DEPENDENTS: 1982 TO 1984

Group	1982	1983	1984
Active-duty military personnel, June 30 1/	45,796	46,319	47,060
Dependents located in Hawaii, March 31 2/	53,967	52,160	53,576

1/ Shorebased only. Excludes Navy personnel afloat, unless temporarily shorebased, and all Coast Guard personnel.

2/ Including dependents of Hawaii residents stationed out of the State, if those dependents remained in Hawaii.

Source: U.S. Department of Defense, Washington, Headquarters Services, Information Operations and Reports, Department of Defense Worldwide Manpower Distribution of Geographical Area, June 30, 1983, pp. 3 and 29, and records.

Table 295.-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES: 1970 TO 1985

[Includes Navy and Coast Guard personnel afloat on a homeported basis. Data differ somewhat from similar series compiled by the Bureau of the Census and Department of Defense, reported elsewhere in this volume]

Date	Personnel and dependents	Military personnel 1/			Dependents in Hawaii	Military families
		Total	Ashore	Aboard ship		
1970: April 1 ..	117,943	56,085	41,362	14,723	61,858	20,558
July 1 ...	111,549	53,768	39,822	13,946	57,781	20,568
1971: July 1 ...	112,943	50,762	35,824	14,938	62,181	23,184
1972: July 1 ...	118,760	52,538	37,124	15,414	66,222	23,688
1973: July 1 ...	128,082	57,783	43,064	14,719	70,299	25,264
1974: July 1 ...	126,882	58,558	45,369	13,189	68,324	29,082
1975: July 1 ...	121,911	58,205	45,589	12,616	63,706	26,122
1976: July 1 ...	126,694	59,737	46,453	13,284	66,957	26,395
1977: July 1 ...	123,471	58,466	45,811	12,655	65,005	25,927
1978: July 1 ...	119,200	58,106	46,001	12,105	61,094	25,400
1979: July 1 ...	122,386	57,868	44,915	12,953	64,518	27,835
1980: April 1 ..	125,042	61,019	48,813	12,206	64,023	26,129
1981: July 1 ...	125,865	61,521	46,255	15,266	64,344	25,893
1982: July 1 ...	127,816	61,107	54,184	6,923	66,709	26,009
1983: July 1 ...	125,273	59,021	53,755	5,266	66,252	26,791
1984: July 1 ...	127,887	60,804	56,321	4,483	67,083	31,415
1985: July 1 ...	122,286	58,005	53,848	4,157	64,281	29,997

1/ Beginning in 1982, ship crews living ashore are included with the ashore total.

Source: Hawaii State Department of Planning and Economic Development, Military Personnel and Dependents in Hawaii, 1985 (Statistical Report 182, December 12, 1985), table 1.

Table 296.-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES, BY SERVICE AND ISLAND: JULY 1, 1985

[See headnote to preceding table]

Island and service	Military personnel				Dependents in Hawaii	Military families
	Ashore and afloat	Living ashore		Living aboard ship		
		In hsg. units	In barracks			
State total ..	58,005	35,821	18,027	4,157	64,281	29,997
By island:						
Oahu	57,726	35,630	17,943	4,153	63,944	29,830
Hawaii	100	78	20	2	129	56
Maui	22	20	-	2	34	27
Kauai	132	92	40	-	171	83
Molokai	1	1	-	-	3	1
Kure Atoll	24	-	24	-	-	-
By service:						
Air Force	4,125	2,959	1,166	-	9,916	4,674
Army	19,005	12,285	6,720	-	24,942	10,608
Coast Guard	1,122	774	134	214	1,171	450
Marine Corps	10,724	5,283	4,475	966	8,879	4,033
Navy	23,029	14,520	5,532	2,977	19,373	10,232

Source: Hawaii State Department of Planning and Economic Development, Military Personnel and Dependents in Hawaii, 1985 (Statistical Report 182, December 12, 1985), table 2.

Table 297.-- NATIONAL GUARD STRENGTH: 1980 TO 1985

[Actual strength as of June 30]

Year	Total	Air National Guard	Army National Guard
1980	5,378	1,910	3,468
1981	5,338	1,943	3,395
1982	5,720	2,022	3,698
1983	5,799	2,031	3,768
1984	5,866	2,073	3,793
1985	6,096	2,227	3,869

Source: Hawaii State Department of Defense, *Annual Report* for years specified, and records.

Table 298.-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND CIVILIAN, BY SERVICE: SEPTEMBER 30, 1984

Category	All services	Army	Navy	Air Force	Other DoD
Total	66,058	24,266	32,230	9,451	111
Military personnel 1/ .	45,258	19,405	19,007	6,846	-
Civilian personnel 2/ .	20,800	4,861	13,223	2,605	111

Footnotes and source follow next table.

Table 299.-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND CIVILIAN, BY LOCATION: SEPTEMBER 30, 1984

Installation or geographic area	Total DoD	Military personnel 1/	Civilian personnel 2/
State total	66,058	45,258	20,800
Aiea	990	738	252
Barbers Point NAS	2,444	1,975	469
Ford Island	448	407	41
Fort Shafter	1,843	-	1,843
Halawa Heights	310	306	4
Hickam AFB	7,541	5,248	2,293
Honolulu	2,263	1,651	612
Kaneohe	7,947	7,280	667
Kapalama	217	8	209
Kauai	203	130	73
Kunia	1,077	1,051	26
Lualualei	571	265	306
Pearl Harbor	18,037	7,028	11,009
Pohakuloa Mil. Res.	105	79	26
Schofield Barracks	15,953	14,957	996
Tripler Army Medical Center	2,445	1,447	998
Wahiawa	1,080	883	197
Waialua	583	547	36
Wheeler AFB	1,629	1,158	471
Other	2,001	1,258	743

1/ Active duty.
2/ Direct hire.

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, Department of Defense Distribution of Personnel by State and by Selected Locations, September 30, 1984, pp. 29-30.

Table 300.-- CIVILIAN EMPLOYMENT IN THE AIR FORCE, ARMY, AND NAVY: ANNUAL AVERAGES, 1979 TO 1984

Year	Total	Air Force	Army	Navy
1979	18,850	2,750	4,250	11,850
1980	18,700	2,650	4,100	11,950
1981	19,400	2,600	4,300	12,500
1982	20,400	2,650	4,650	13,100
1983	20,850	2,650	4,850	13,350
1984	20,600	2,650	5,000	12,950

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised annually through April 1985.

Table 301.-- MILITARY PRIME CONTRACT AWARDS, BY SERVICE: 1981 TO 1984

[In thousands of dollars. Fiscal years ended September 30. Net value of Department of Defense prime contracts over $25,000]

Fiscal year	Total	Army	Navy & Marine Corps	Air Force	Other defense activities
1981	575,776	150,902	137,565	28,328	258,981
1982	500,609	80,661	103,827	35,279	280,842
1983	638,975	117,573	187,355	36,806	297,241
1984	536,735	185,074	158,068	52,719	140,874

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, Department of Defense Atlas/State Data Abstract for the United States, Fiscal Year 1984, p. 33.

Table 302.-- DEFENSE EXPENDITURES: 1974 TO 1984

[In thousands of dollars. Does not include military retired pay, Hawaii National Guard expenditures, or U.S. Army Corps of Engineers contracts]

Year	All categories	Military payroll	Civilian payroll	Supplies, equipment, services
1974	897,861	381,281	271,007	245,573
1975	982,779	396,413	281,955	304,411
1976	1,034,226	420,051	301,347	312,828
1977	1,086,561	432,754	325,778	328,029
1978	1,155,517	465,449	354,530	335,538
1979	1,221,784	497,840	372,596	351,348
1980	1,317,402	533,691	418,759	364,952
1981	1,449,328	612,761	450,684	385,883
1982	1,693,410	716,841	508,569	468,000
1983	1,848,175	793,782	558,220	496,175
1984	1,867,189	828,787	582,531	455,872
SERVICE: 1984				
Air Force	207,557	118,104	35,223	54,231
Army	685,246	366,273	128,356	190,618
Coast Guard	26,224	19,500	3,919	2,805
Navy and Marines	948,162	324,911	415,033	208,218

Source: Quarterly reports submitted to DPED by armed forces.

Table 303.-- HOUSING UNITS OWNED BY THE ARMED FORCES: 1984 AND 1985

[As of April 1]

Year	All services	Air Force	Army	Coast Guard	Navy and Marines
1984	19,228	2,957	7,141	315	8,815
1985	19,214	2,957	7,122	315	8,820

Source: Hawaii State Census Statistical Areas Committee, The Geographic Distribution of Government Housing in Hawaii, 1985 (Report CTC-63, July 12, 1985).

Table 304.-- VETERANS IN CIVIL LIFE: 1979 AND 1984

Period of service	September 30, 1979	September 30, 1984
Total veterans 1/	94,000	97,000
War veterans 1/	79,000	78,000
Vietnam era	33,000	34,000
Korean conflict	20,000	21,000
World War II	30,000	32,000
World War I	1,000	(Z)
Post-Vietnam era only 2/	2,000	7,000
Between Korea and Vietnam only	13,000	10,000
Other peacetime veterans 3/	...	1,000

Z Under 500.

1/ Veterans who served in more than one conflict are counted only once in the totals and subtotals.

2/ Service only after May 7, 1975.

3/ Includes those who served only between World War I and World War II, and those who served only between World War II and the Korean conflict.

Source: Veterans Administration, Veteran Population (semi-annual report).

Table 305.-- VETERAN STATUS BY COUNTIES: 1980

Subject	State total 1/	Counties			
		Hawaii	Honolulu	Kauai	Maui
Male veterans	98,633	10,117	77,356	4,133	7,015
Percent of civilian males, 16 years and over	31.1	29.9	32.0	28.4	26.4
Female veterans	5,141	359	4,381	129	272
Percent of civilian females, 16 years and over	1.5	1.1	1.6	0.9	1.0

1/ Includes Kalawao County, not shown separately.

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 70 and 179.

Table 306.-- MILITARY PERSONNEL RECEIVING RETIRED PAY FROM THE DEPARTMENT OF DEFENSE: SEPTEMBER 30, 1984

Service	Number of personnel		Monthly payment 2/ ($1,000)	Payment per person paid 2/ (dollars)
	Retired 1/	Paid by DOD		
Dept. of Defense	11,011	10,161	11,484	1,130
Army	4,610	4,151	4,391	1,058
Navy	2,985	2,789	3,200	1,147
Marine Corps	757	679	837	1,233
Air Force	2,659	2,542	3,055	1,202

1/ Includes retired personnel not receiving retired pay from the Department of Defense.

2/ Before deductions for withholding taxes and allotments, but after deductions for survivor benefits, dual compensation, etc.

Source: U.S. Department of Defense, Office of the Actuary, Defense Manpower Data Center, FY 1984 DOD Statistical Report on the Military Retirement System (1985), p. 17.

Table 307.-- WAR CASUALTIES OF HAWAII RESIDENTS IN THE ARMED FORCES: 1914 TO 1976

[Data refer to U.S. military personnel whose home state or pre-service residence of record was Hawaii]

War	Personnel serving	Battle deaths	Nonbattle deaths
World War I 1/	9,800	102	
World War II 2/	28,008	658	138
Korean conflict 3/	(NA)	403	(NA)
Vietnam conflict	12,970	221	51

NA Not available.

1/ Data include nearly 200 Hawaii residents serving (and 22 dying) with the British armed forces, many prior to the U.S. entry into World War I. Of the 102 war casualties, only 14 occurred overseas prior to the armistice; 61 took place in Hawaii or North America or after the armistice, and the time or place of 27 is unknown.

2/ The number serving represents the cumulative number of registrants from Hawaii inducted through December 31, 1945. The cumulative number of Hawaii registrants, 18 to 37 years old and classified 1-C, inducted or enlisted through August 1, 1945 was 22,210.

3/ In addition, 923 wounded personnel gave Hawaii as their pre-service residence.

Source: Hawaii State Department of Planning and Economic Development, *Military Personnel and Dependents in Hawaii, July 1977* (Statistical Report 120, September 9, 1977), tables 6 and 7.

SOCIAL INSURANCE AND HUMAN SERVICES

This section presents data related to governmental expenditures on social welfare; programs for old-age, survivors, disability and health insurance; public employee retirement; unemployment insurance; aid to the needy; and child and other welfare services. Also included here are selected statistics on United Way campaigns, foundations, and the quality of life. Related data are cited in Sections 9 and 13.

Total social welfare costs reached $336 million in fiscal 1984, compared with $112 million a decade earlier. About 56 percent of the 1984 total came from State funds and the remainder from the Federal government. The monthly average number of persons served by major welfare programs in 1984 was 62,000, or 6.4 percent of the civilian population of the State. Almost two-thirds of all public assistance payments and over half of all recipient cases were accounted for by aid to families with dependent children. The average monthly payment per case for public assistance was $370, or 56 percent more than in 1974. Participation in the food stamp program included 38,000 households and 100,000 persons. Among workers receiving unemployment compensation in 1983, weekly benefits averaged $123. About 125,000 Hawaii residents were receiving Social Security benefits as of the end of 1984, and about 93,000 were enrolled for Medicare. There were also 16,000 State and County government pensioners in 1984, with annual benefits of $136 million. Child adoptions in 1984 numbered 548. Sixty-eight foundations reported assests of $165 million when most recently surveyed. The Aloha United Way reported agency allocations of $8.4 million on Oahu and $1.6 million on the Neighbor Islands in 1984. A recent comparative study of the "quality of life" in 329 American metropolitan areas ranked Honolulu sixty-first.

Major data sources include reports and records of the U.S. Department of Health and Human Services, the Hawaii State Department of Social Services and Housing, the Hawaii State Department of Labor and Industrial Relations, the Hawaii State Employees' Retirement System, and the Aloha United Way. Historical Statistics of Hawaii, Section 8, contains data for earlier years. Section 13 of the Statistical Abstract of the United States: 1985 presents comparable Mainland data.

Table 308.-- PERSONS SERVED AND AVERAGE PAYMENTS, FOR PROGRAMS ADMINISTERED BY THE HAWAII STATE DEPARTMENT OF SOCIAL SERVICES AND HOUSING: 1974 TO 1984, MONTHLY AVERAGES

[Years ended June 30]

Year	Major programs 1/		Service cases 2/	Medical payments 3/		Average money payments 4/ (dollars)	
	Recipients	Individuals		Cases	Individuals	Per case	Per individual
1974	21,713	63,807	7,242	5,653	6,912	237.54	85.10
1975	20,850	59,911	7,777	8,212	8,963	275.20	95.77
1976	24,438	67,594	9,067	10,825	11,675	295.17	106.72
1977	36,534	81,938	12,610	12,303	13,329	307.76	114.52
1978	28,575	75,485	15,000	14,381	15,572	321.63	121.75
1979	27,399	72,928	16,993	13,796	14,890	334.90	150.99
1980	27,219	71,693	16,312	12,932	13,598	337.59	128.17
1981	27,604	72,480	15,281	11,763	12,104	342.67	130.68
1982	26,130	68,835	8,124	11,629	12,228	355.42	135.05
1983	24,157	64,305	6,443	12,858	13,186	371.00	139.56
1984	23,378	62,430	6,586	12,642	12,939	369.92	138.72
COUNTIES: 1984							
Hawaii ..	4,000	10,676	770	1,757	1,822	369.92	138.81
Maui	1,609	4,441	607	1,034	1,062	371.58	134.78
Honolulu	16,884	45,008	4,647	9,175	9,362	370.58	139.20
Kauai ...	885	2,306	562	694	676	354.58	136.10

1/ Old age assistance, aid to disabled, aid to families with dependent children, AFDC unemployed parents, AFDC foster care, child welfare foster care, and general assistance.

2/ Data for 1976 and 1977 are quarterly averages.

3/ Ineligible for money assistance, receiving medical payment only.

4/ Gross obligation basis.

Source: Hawaii State Department of Social Services and Housing, records.

Table 309.-- PERCENT OF CIVILIAN POPULATION SERVED BY MAJOR PROGRAMS ADMINISTERED BY THE HAWAII STATE DEPARTMENT OF SOCIAL SERVICES AND HOUSING, BY COUNTIES: 1983 AND 1984

Year	State	Hawaii	Maui	Honolulu	Kauai
1983	6.7	10.0	5.5	6.4	5.4
1984	6.4	10.0	5.3	6.0	5.3

Source: Hawaii State Department of Social Services and Housing, records; July 1 population estimates in DPED, Statistical Memorandum 85-3.

Table 310.-- SOCIAL WELFARE COSTS: 1974 TO 1984

[Thousands of dollars. Years ended June 30]

Year	Total cost	By source of funds		By expenditure category			
		Federal	State	Administration	Medical payments	Money payments	Social service costs
1974	111,627	45,782	65,845	7,933	39,096	63,131	1,467
1975	121,643	47,163	74,479	8,262	41,158	70,622	1,601
1976	168,440	67,629	100,811	10,701	60,685	87,956	9,098
1977	194,203	79,151	115,052	13,505	69,677	100,322	10,699
1978	230,111	93,490	136,621	14,206	93,399	111,275	11,231
1979	244,898	101,411	143,487	15,250	104,694	113,854	11,100
1980	255,280	109,734	145,547	18,999	112,024	112,793	11,464
1981	286,709	131,652	155,057	19,595	135,541	118,346	13,227
1982	289,391	121,911	167,480	22,271	143,068	114,811	9,241
1983	303,782	133,498	170,284	26,616	157,996	111,185	7,985
1984	335,986	148,902	187,084	35,482	185,730	107,508	7,266

Source: Hawaii State Department of Social Services and Housing, records.

Table 311.-- PUBLIC ASSISTANCE PAYMENTS AND RECIPIENTS: 1983 AND 1984

[Years ended June 30]

Program	Total payments ($1,000)		Recipient cases (monthly average)		Average monthly payment (dollars)	
	1983	1984	1983	1984	1983	1984
All programs	134,123	132,950	34,183	33,756	327	328
Old age assistance 1/ .	10,042	10,509	4,495	4,453	186	197
Aid to the blind 1/ ...	481	541	167	171	241	263
Aid to disabled 1/	15,068	16,879	5,205	5,449	241	258
Aid to families with dependent children 2/	87,196	84,362	17,764	17,327	409	405
Child welfare foster care	1,393	1,519	586	613	198	207
General assistance	19,943	19,140	5,966	5,743	278	277

1/ Assisted through the Federal Social Security Administration, with State supplements (Supplementary Security Payments) included.

2/ Includes AFDC unemployed parent and AFDC foster care.

Source: Hawaii State Department of Social Services and Housing, records.

Table 312.-- PARTICIPATION IN FOOD STAMP PROGRAM: 1983 AND 1984

[Years ended June 30]

Subject	1983	1984
Households, total participating 1/	38,550	37,766
Public assistance recipients	20,534	19,163
Other participants 2/	18,016	18,603
Persons, total participating 1/	101,119	99,817
Public assistance recipients	58,409	55,512
Other participants 2/	42,710	44,304
Value of food stamps given to recipients ($1,000)	78,775	79,584

1/ Monthly averages.

2/ Not receiving public assistance (food stamp only).

Source: Hawaii State Department of Social Services and Housing, records.

Table 313.-- MEDICARE ENROLLMENT AND REIMBURSEMENT: 1983

Coverage	Number of persons enrolled		Amount reimbursed ($1,000)	
	All persons	Persons 65 and over	All persons	Persons 65 and over
Hospital and/or medical insurance	93,183	85,608	148,316	128,398
Hospital insurance	90,772	83,197	93,886	83,570
Supplementary medical insurance	89,677	82,688	54,430	44,828

Source: U.S. Department of Health and Human Services, Health Care Financing Administration, Medicare Data 1983, Enrollment and Reimbursement by State and County.

Table 314.-- MEDICARE ENROLLMENT OF PERSONS 65 YEARS OLD AND OVER, BY SEX AND COUNTIES: JULY 1, 1984

[Persons enrolled with hospital and/or medical coverage]

County	Both sexes	Male	Female
State total	89,862	44,203	45,659
City and County of Honolulu	64,963	31,069	33,894
Other counties	24,804	13,096	11,708
Hawaii	11,495	6,099	5,396
Kalawao	95	52	43
Kauai	4,996	2,704	2,292
Maui	8,218	4,241	3,977
County not reported	95	38	57

Source: U.S. Bureau of the Census, Population Division, Local Area Population Estimates Branch, memorandum dated June 18, 1985.

Table 315.-- RETIREMENT, SURVIVOR AND DISABILITY INSURANCE (OASDI) BENEFITS IN CURRENT-PAYMENT STATUS, BY TYPE OF BENEFIT AND COUNTY: DECEMBER 1984

Type of benefit and county	Number of OASDI benefits	Amount of monthly benefits ($1,000)
Total	125,012	50,529
TYPE OF BENEFIT		
Retirement program:		
Retired workers 1/	80,153	36,769
Wives or husbands 1/	10,138	2,209
Children	5,288	867
Survivor program:		
Widows, widowers, or parents	12,626	4,932
Children	7,129	2,207
Disability program:		
Disabled workers	6,766	3,157
Wives or husbands	707	89
Children	2,205	294
Age 62 and over:		
Men	48,743	24,640
Women	51,824	19,027
COUNTY		
Hawaii	16,599	6,681
Honolulu	88,964	36,045
Kalawao	113	47
Kauai	7,155	2,837
Maui	12,181	4,918

1/ Includes special age 72 beneficiaries.

Source: U.S. Department of Health and Human Services, Social Security Administration, Office of Research and Statistics, data supplied June 13, 1985.

Table 316.-- SOCIAL SECURITY POPULATION AGE 65 AND OVER, BY SEX, AGE, AND COUNTY: JUNE 1984

[Persons covered by retirement and survivor insurance, including those in non-payment status]

Subject	Number
Total	85,398
Sex:	
Male	42,606
Female	42,792
Age:	
65 to 69 years	30,881
70 to 74 years	23,289
75 to 79 years	15,144
80 to 84 years	9,255
85 to 89 years	4,498
90 to 94 years	1,729
95 years and over	602
County:	
Hawaii	11,206
Honolulu	61,341
Kalawao	98
Kauai	4,782
Maui	7,971

Source: U.S. Department of Health and Human Services, Social Security Administration, Office of Research and Statistics, data supplied June 13, 1985.

Table 317.-- SOCIAL SECURITY BENEFICIARIES AND PAYMENTS: 1979 TO 1984

Year	Number of beneficiaries, December	Monthly payments, December ($1,000)	Annual payments ($1,000)
1979	109,952	27,462	310,320
1980	113,538	33,078	365,861
1981	115,670	38,155	435,126
1982	118,690	43,029	498,496
1983 1/....	121,061	46,523	536,000
1984	125,012	50,529	578,000

1/ Revised from Data Book 1984, table 300.

Source: U.S. Department of Health and Human Services, Social Security Administration, Office of Research and Statistics, records.

Table 318.-- HAWAII STATE EMPLOYEES' RETIREMENT SYSTEM: 1979 TO 1984

Year	Membership, March 31	Pensioners, March 31	Assets, 1/ June 30 (dollars)	Total benefits paid 2/ (dollars)	Average monthly pension 2/ (dollars)	Administration expenses 2/ (dollars)
1979 ..	47,476	11,382	1,144,077,004	70,062,195	352	823,891
1980 ..	48,868	12,052	1,301,853,352	78,415,562	390	932,899
1981 ..	49,426	13,012	1,474,543,376	94,345,203	416	1,069,419
1982 ..	49,806	13,787	1,668,028,237	104,934,660	437	1,373,452
1983 ..	51,578	14,755	1,935,831,849	124,784,103	466	1,272,181
1984 ..	51,609	15,548	2,235,686,464	135,631,738	491	1,250,890

1/ Book value.

2/ Year ended June 30. Data on total benefits paid exclude pensioners' bonus and social security.

Source: Employees' Retirement System of the State of Hawaii, 57th Annual Report, June 30, 1982, pp. 19 and 34, as revised and updated.

Table 319.-- UNEMPLOYMENT INSURANCE: 1974 TO 1984

Calendar year	Covered employment		Insured unemployment		Average weekly total wages (dollars)
	Total	Percent of total jobcount	Total	Percent of total unemployment	
1974 ...	342,615	91	13,900	47	162.25
1975 ...	350,481	92	18,779	59	174.42
1976 ...	357,770	92	21,480	55	183.87
1977 ...	367,518	92	16,438	55	192.29
1978 ...	384,214	92	11,287	36	207.98
1979 ...	400,311	92	10,381	42	225.84
1980 ...	413,095	93	11,291	56	244.56
1981 ...	417,018	94	12,224	51	260.56
1982 ...	409,511	93	13,656	44	272.96
1983 ...	413,288	93	13,452	45	285.60
1984 ...	422,950	95	11,567	43	296.10

Calendar year	Gross benefits 1/ ($1,000)	Weekly benefits 1/		Average benefit duration 1/ (weeks)	Exhaustion rate 1/ (percent)
		Maximum (dollars)	Average (dollars)		
1974 ...	45,208	98	71.86	16.2	35.3
1975 ...	58,942	104	76.34	16.4	34.1
1976 ...	71,574	112	83.84	18.9	48.4
1977 ...	55,823	120	88.68	16.4	36.0
1978 ...	45,653	126	91.25	16.2	34.1
1979 ...	39,864	134	93.07	13.5	23.1
1980 ...	49,222	144	102.91	13.7	22.0
1981 ...	66,194	157	113.59	14.2	24.9
1982 ...	77,788	169	124.34	14.8	29.6
1983 ...	70,392	178	123.22	15.8	34.0
1984 ...	70,914	188	135.72	14.8	29.0

NA Not available.

1/ Regular benefits only. Excludes extended benefits.

Source: Hawaii State Department of Labor and Industrial Relations, Unemployment Insurance Fact Book (August 1984), pp. 17, 19, 25, 37, 42, and 43, and records.

Table 320.-- CHILD ADOPTIONS: 1981 TO 1984

Type of adoption	1981	1982	1983	1984
Total	659	603	582	548
By relatives	429	388	384	362
By nonrelatives	230	215	198	186
Placed by social agencies ...	129	127	149	145

Source: Hawaii State Department of Social Services and Housing, tabulations from SRS-NCSS-280 Adoption Card.

Table 321.-- FOUNDATIONS: 1980-1982

[For definition and coverage, see Data Book 1984, table 306, headnote]

Asset level and name of foundation	Fiscal year ended	Assets ($1,000)	Grants made ($1,000)
All non-restricted foundations 1/	Mar. 31, 1980- Dec. 31, 1982	164,600	9,766
Foundations with assets of $10,000,000 or more:			
Anthony (Barbara Cox) Foundation	Dec. 31, 1981	21,690	107
Atherton Family Foundation	Dec. 31, 1982	28,227	1,434
Castle (Harold K. L.) Foundation	Dec. 31, 1981	30,364	952
Castle (Samuel N. and Mary) Foundation	Dec. 31, 1982	12,561	867
McInerny Foundation	Sept. 30, 1982	15,782	825

1/ Data limited to the 68 foundations open to grant seekers. Excludes 62 restricted foundations.

Source: Alu Like, A Guide to Charitable Trusts and Foundations in the State of Hawaii: 1984 Edition, (Honolulu, Alu Like, 1984), pp. 195-261.

Table 322.-- UNITED WAY REVENUES AND OUTLAYS, BY ISLANDS: 1982 TO 1984

[Dollars]

Year	Four-island total	Aloha United Way (Oahu)	Hawaii Island United Way	United Way of Kauai	Maui United Way
TOTAL REVENUES					
1982	10,781,394	9,023,086	740,431	326,338	691,539
1983	11,123,415	9,267,635	737,921	329,755	788,104
1984	14,766,346	9,560,841	755,285	352,388	927,832
CONTRIBUTIONS					
1982	10,593,239	8,837,180	713,677	316,408	681,019
1983	10,930,376	9,133,386	710,113	326,427	760,450
1984	11,249,596	9,364,482	729,460	348,720	806,934
TOTAL OUTLAYS					
1982	10,548,284	9,018,346	726,288	323,981	777,313
1983	11,237,458	9,387,948	749,264	341,681	758,565
1984	11,240,764	9,382,437	766,213	359,515	732,809
AGENCY ALLOCATIONS					
1982	9,743,142	8,170,563	619,850	283,500	669,229
1983	10,072,529	8,490,278	632,779	299,354	650,118
1984	10,005,446	8,440,574	645,668	318,000	601,704

Source: Aloha United Way, Annual Report (annual); Hawaii Island United Way, Inc., Financial Statements (annual), and records; United Way of Kauai and Maui United Way, records.

Table 323.-- QUALITY OF LIFE INDEX RANKINGS, FOR HONOLULU AND MAUI: 1970 TO 1984

Area ranked and authority	No. of areas ranked	Local rank
Honolulu:		
Midwest Research Institute 1/	65	31
University of Nebraska 2/	100	7
Boyer and Savageau 3/	277	28
Pierce 4/	277	47
Boyer and Savageau 5/	329	61
Maui:		
Boyer and Savageau 6/	107	99

1/ Ben-Chieh Liu, Quality of Life Indicators in the U.S. Metropolitan Areas, 1970 (Summary) (Midwest Research Institute, May 1975), p. 53. Based on data for SMSAs.

2/ Ralph H. Todd, "A City Index: Measurement of a City's Attractiveness," Review of Applied Urban Research (University of Nebraska at Omaha, Center for Applied Urban Research), Vol. 5, No. 7, July 1977, pp. 1-19. Based on data for cities rather than SMSAs.

3/ Richard Boyer and David Savageau, Places Rated Almanac (Rand McNally and Co., 1981), pp. 370 and 374. Based on SMSA data for late 1970s through 1980.

4/ Paper presented by Robert Pierce to Association of American Geographers in Washington, D.C., April 24, 1984; cited in Rick Carroll, "Most Livable? Honolulu rated 47th best city, based on 9 factors," Honolulu Advertiser, April 25, 1984, p. A-3. Based on data for SMSAs.

5/ Richard Boyer and David Savageau, Places Rated Almanac, 2nd ed. (Rand McNally and Co., 1985), p. 424. Based on SMSA data for late 1970s through 1984.

6/ Richard Boyer and David Savageau, Places Rated Retirement Guide (Rand McNally and Co., 1983), p. 173. Ratings based on suitability for retired persons.

Table 324.-- QUALITY OF LIFE INDEX RANKINGS, BY SUBJECT, FOR THE HONOLULU STANDARD METROPOLITAN STATISTICAL AREA: 1984

[Data refer to the rank of the Honolulu SMSA among the 329 SMSAs in the United States, based on data for the late 1970s through 1984]

Subject	Rank
Cumulative score ranking	61
Climate and terrain	22
Housing	326
Health care and environment	92
Crime	142
Transportation	40
Education	263
The arts	36
Recreation	15
Economics	197

Source: Richard Boyer and David Savageau, Places Rated Almanac, 2nd ed. (Rand McNally and Company, 1985), p. 424.

Section 12

LABOR FORCE, EMPLOYMENT, AND EARNINGS

This section presents statistics on the size and composition of the labor force, employment by occupation, industry, class of worker, and place of work, wage rates, payrolls, hours, industrial safety, work disability, unionization, and strikes. Related series appear in Sections 14 and 19 through 23.

The civilian labor force averaged 473,000 in 1984; of this total, 446,000 persons were employed and 27,000 were unemployed and seeking work. The civilian jobcount rose from 375,000 in 1974 to 454,000 a decade later. (The jobcount differs from employment because the latter counts multiple jobholders -- "moonlighters" -- only once.) Areas with large concentrations of workers in 1980 included downtown Honolulu (46,000), Waikiki (30,000), and Pearl Harbor-Hickam (15,000). The unemployment rate averaged 5.6 percent in 1984, with island levels ranging from 5.3 to 14.1 percent. In 1983, 59.1 percent of all females 16 years old and over were in the civilian labor force -- the eighth highest ratio in the nation. By occupation, one out of four civilian workers is classified as professional or managerial. Activities with especially large numbers of employees include, services (109,000 in 1984), retail trade (92,000), and government (92,000). The average annual earnings of wage and salary workers under the Hawaii Employment Security Law reached $16,700 in 1984, or 8.4 percent less than the 1974 average after adjustment for inflation. Average weekly hours in 1984 ranged from 31.3 (for retail trade) to 41.0 (for communications and utilities). Labor union membership was estimated at 151,000 in 1984. Work stoppages in 1984 involved 2,100 workers.

Analyzing labor force data is complicated by differences in concepts, coverage, definitions, timing, and estimating methods. Census statistics collected as of the last week in March 1980 differ from annual averages for calendar year 1980 or later periods, and jobcounts based on employers' reports of covered workers are seldom comparable to civilian employment totals derived from small household surveys.

Principal sources for the data on labor force, employment, place of work, hours, earnings, unions and strikes are the decennial reports of the U.S. Bureau of the Census, the same agency's Current Population Survey, reports by the U.S. Bureau of Labor Statistics, monthly and annual tabulations by the Hawaii State Department of Labor and Industrial Relations, and annual surveys of pay rates by the Hawaii Employers Council. Historical Statistics of Hawaii, Section 4, includes figures for earlier years. Statistics for the nation as a whole are published in Section 14 of the Statistical Abstract of the United States: 1985.

Table 325.-- LABOR FORCE STATUS, BY SEX: 1950 TO 1980

Sex and labor force status	1950 1/	1960	1970	1980
BOTH SEXES				
Persons 16 years and over	351,375	402,937	522,018	723,479
Labor force	207,952	263,450	344,269	494,223
Armed forces	22,856	47,255	49,785	58,443
Civilian labor force	185,096	216,195	294,484	435,780
Employed	167,571	207,456	285,556	415,181
Unemployed	17,525	8,739	8,928	20,599
Percent of civ. labor force	9.5	4.0	3.0	4.7
Not in labor force	143,423	139,487	177,749	229,256
MALE				
Persons 16 years and over	197,864	219,822	272,726	370,683
Labor force	157,088	186,507	222,221	290,420
Armed forces	22,572	46,626	48,860	54,032
Civilian labor force	134,516	139,881	173,361	236,388
Employed	120,972	135,481	168,940	225,331
Unemployed	13,544	4,400	4,421	11,057
Percent of civ. labor force	10.1	3.1	2.6	4.7
Not in labor force	40,776	33,315	50,505	80,263
FEMALE				
Persons 16 years and over	153,511	183,115	249,292	352,796
Labor force	50,864	76,943	122,048	203,803
Armed forces	284	629	925	4,411
Civilian labor force	50,580	76,314	121,123	199,392
Employed	46,599	71,975	116,616	189,850
Unemployed	3,981	4,339	4,507	9,542
Percent of civ. labor force	7.9	5.7	3.7	4.8
Not in labor force	102,647	106,172	127,244	148,993

1/ Data refer to persons 14 years and over.

Source: U.S. Bureau of the Census, U.S. Census of Population: 1960, General Social and Economic Chracteristics, Hawaii, PC(1)-13C (1962), tables 53 and 54, and Detailed Characteristics, Hawaii, PC(1)-13D (1962), table 115; 1970 Census of Population, General Social and Economic Characteristics, Hawaii, PC(1)-C13 (December 1971), table 53; 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 61.

Table 326.-- LABOR FORCE STATUS, BY COUNTIES: 1980

Subject	The State	Counties				
		Hawaii	Honolulu	Kalawao	Kauai	Maui
Persons 16 years and over	723,479	67,205	574,903	144	28,629	52,598
Labor force	494,223	41,214	397,889	82	18,998	36,040
Percent of persons 16 years and over	68.3	61.3	69.2	56.9	66.4	68.5
Civilian labor force	435,780	41,006	339,863	82	18,789	36,040
Employed	415,181	38,150	324,113	82	18,223	34,613
Unemployed	20,599	2,856	15,750	-	566	1,427
Percent of civilian labor force	4.7	7.0	4.6	-	3.0	4.0
Not in labor force	229,256	25,991	177,014	62	9,631	16,558
Female, 16 years and over	352,796	33,160	279,711	56	13,871	25,998
Labor force	203,803	17,013	162,998	35	8,077	15,680
Percent of female, 16 years and over	57.8	51.3	58.3	62.5	58.2	60.3
Civilian labor force	199,392	17,007	158,618	35	8,052	15,680
Employed	189,850	15,875	151,089	35	7,756	15,095
Unemployed	9,542	1,132	7,529	-	296	585
Percent of civilian labor force	4.8	6.7	4.7	-	3.7	3.7
Not in labor force	148,993	16,147	116,713	21	5,794	10,318
Female, 16 years and over	352,796	33,160	279,711	56	13,871	25,998
With own children under 6 years	62,606	6,679	48,648	-	2,632	4,647
In labor force	32,215	3,244	24,828	-	1,467	2,676
With own children 6 to 17 years only	65,359	5,661	52,415	-	2,681	4,602
In labor force	45,523	3,864	36,248	-	1,992	3,419

Source: U.S. Bureau of the Census, _1980 Census of Population, General Social and Economic Characteristics, Hawaii_, PC 80-1-C13 (June 1983), tables 67 and 176.

Table-327.-- LABOR FORCE STATUS, BY AGE AND SEX: 1980

Sex and age	Total	Armed forces	Civilian labor force			Not in labor force
			Total	Employed	Unemployed	
Persons 16 years and over	723,479	58,443	435,780	415,181	20,599	229,256
Male	370,683	54,032	236,388	225,331	11,057	80,263
16 to 19 years	37,481	5,598	14,441	12,658	1,783	17,442
20 to 24 years	59,293	21,970	30,569	28,079	2,490	6,754
25 to 54 years	192,705	26,207	153,456	147,844	5,612	13,042
55 to 64 years	43,030	248	30,282	29,346	936	12,500
65 years and over	38,174	9	7,640	7,404	236	30,525
Female	352,796	4,411	199,392	189,850	9,542	148,993
16 to 19 years	32,403	411	13,288	11,734	1,554	18,704
20 to 24 years	46,694	1,937	29,581	27,514	2,067	15,176
25 to 54 years	192,675	2,033	132,002	126,889	5,113	58,640
55 to 64 years	43,233	30	21,109	20,483	626	22,094
65 years and over	37,791	-	3,412	3,230	182	34,379

Age	Percent of total population in labor force		Percent of civilian population in civilian labor force		Percent of civilian labor force unemployed	
	Male	Female	Male	Female	Male	Female
Persons 16 years and over .	78.3	57.8	74.7	57.2	4.7	4.8
16 to 19 years	53.5	42.3	45.3	41.5	12.3	11.7
20 to 24 years	88.6	67.5	81.9	66.1	8.1	7.0
25 to 54 years	93.2	69.6	92.2	69.2	3.7	3.9
55 to 64 years	71.0	48.9	70.8	48.9	3.1	3.0
65 years and over	20.0	9.0	20.0	9.0	3.1	5.3

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), table 67.

Table 328.-- LABOR FORCE STATUS AND WORKERS IN FAMILY IN 1979: 1980

Labor force status in 1979	Male	Female
Persons 16 years and over, in labor force in 1979	304,932	227,073
Worked in 1979	300,738	222,531
50 to 52 weeks	210,996	124,833
48 to 49 weeks	17,414	12,900
40 to 47 weeks	20,240	19,682
27 to 39 weeks	15,301	19,590
14 to 26 weeks	19,024	23,157
1 to 13 weeks	17,763	22,369
Usually worked 35 or more hours per week	257,445	157,939
50 to 52 weeks	194,164	103,250
27 to 49 weeks	41,341	33,504
1 to 26 weeks	21,940	21,185
With unemployment in 1979	41,669	38,585
Percent of those in labor force in 1979	13.7	17.0
Unemployed 1 to 4 weeks	12,611	15,156
Unemployed 5 to 14 weeks	13,509	11,914
Unemployed 15 or more weeks	15,549	11,515
Mean weeks of unemployment	14.9	12.7

Workers in family in 1979	The State	Oahu	Other islands
Families	227,974	178,516	49,458
No workers	21,137	15,152	5,985
1 worker	65,930	51,611	14,319
2 workers	99,415	78,501	20,914
3 or more workers	41,492	33,252	8,240
Married-couple families	188,933	147,829	41,104
No workers	14,266	9,857	4,409
1 worker	48,743	38,282	10,461
2 workers	89,474	70,542	18,932
Husband and wife worked	78,500	61,837	16,663
3 or more workers	36,450	29,148	7,302
Husband and wife worked	29,581	23,549	6,032
Female householder, no husband present	28,514	22,695	5,819
No workers	5,850	4,583	1,267
1 worker	12,538	9,871	2,667
2 workers	6,654	5,394	1,260
3 or more workers	3,472	2,847	625

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 70.

Table 329.-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE: ANNUAL AVERAGES, 1970 TO 1984

Year	Civilian labor force	Civilian employment	Unemployed	
			Number	Percent
1970	321,550	305,650	15,900	4.9
1971	336,800	313,450	23,350	6.9
1972	351,000	324,050	26,950	7.7
1973	364,600	338,350	26,250	7.2
1974	375,000	345,350	29,650	7.9
1975	382,950	351,100	31,850	8.3
1976 1/ .	410,000	370,000	40,000	9.8
1977 1/ .	418,000	388,000	31,000	7.3
1978 1/ .	420,000	388,000	32,000	7.7
1979 1/ .	421,000	395,000	26,000	6.3
1980 1/..	438,000	417,000	21,000	4.9
1981	450,000	426,000	24,000	5.4
1982	460,000	430,000	31,000	6.7
1983 1/..	472,000	442,000	30,000	6.5
1984	473,000	446,000	27,000	5.6

1/ Revised from Data Book 1984, table 331.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised annually through April 1985.

Table 330.-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE, FOR COUNTIES AND ISLANDS: ANNUAL AVERAGES, 1974 TO 1984

[Data for 1980 and later years are not directly comparable to estimates for earlier years. Island data may not add exactly to State totals in preceding table]

Year	Oahu	Hawaii County	Kauai County	Maui County			
				County total	Lanai	Maui	Molokai
CIVILIAN LABOR FORCE							
1974	301,100	33,150	15,050	25,800	1,550	21,300	2,950
1975 1/....	304,250	34,600	16,300	27,800	1,600	23,200	3,000
1976 1/....	324,800	37,050	17,750	30,400	1,700	25,600	3,100
1977 1/....	330,550	37,800	18,500	32,100	1,700	27,150	3,200
1978 1/ ...	330,650	37,600	18,450	33,300	1,800	27,850	3,600
1979 1/ ...	331,100	37,250	18,500	34,150	1,750	28,650	3,700
1980 1/ ...	340,350	41,950	20,000	36,750	1,250	33,150	2,300
1981 1/ ...	347,000	44,250	20,600	39,150	1,150	35,450	2,000
1982	352,050	45,450	21,300	42,200	1,300	38,300	2,600
1983 1/....	359,150	46,600	22,150	44,100	1,150	40,200	2,700
1984	360,400	46,850	21,850	43,900	1,150	40,300	2,500
CIVILIAN EMPLOYMENT							
1974	278,400	29,900	13,750	23,350	1,400	19,400	2,500
1975	280,050	31,150	14,800	25,050	1,400	21,100	2,550
1976 1/ ...	293,750	32,900	16,100	27,250	1,450	23,100	2,650
1977	306,500	34,350	17,350	29,800	1,600	25,300	2,900
1978 1/ ...	305,950	33,950	17,200	30,900	1,650	26,000	3,250
1979 1/....	311,350	34,350	17,500	32,100	1,650	27,100	3,300
1980 1/....	324,750	39,300	19,150	34,850	1,150	31,700	2,000
1981 1/ ...	329,900	40,850	19,450	36,800	1,100	33,550	2,150
1982	330,550	41,050	19,550	38,850	1,050	35,600	2,200
1983 1/....	338,550	42,350	20,450	40,650	1,050	37,450	2,200
1984	341,350	43,100	20,350	41,200	1,000	38,050	2,150

Continued on next page.

Table 330.-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE, FOR COUNTIES AND ISLANDS: ANNUAL AVERAGES, 1974 TO 1984 -- Con.

Year	Oahu	Hawaii County	Kauai County	Maui County			
				County total	Lanai	Maui	Molokai
UNEMPLOYED							
1974	22,700	3,250	1,300	2,450	150	1,850	450
1975	24,200	3,450	1,500	2,750	200	2,100	450
1976 1/	31,000	4,150	1,650	3,150	200	2,500	450
1977 1/	24,050	3,450	1,200	2,350	150	1,900	300
1978	24,700	3,650	1,200	2,400	200	1,850	400
1979	20,050	2,900	1,000	2,050	100	1,550	400
1980	15,600	2,650	850	1,900	100	1,450	350
1981	17,100	3,400	1,200	2,350	150	1,900	300
1982	21,500	4,450	1,700	3,350	250	2,700	400
1983 1/	20,600	4,300	1,700	3,450	100	2,800	550
1984	19,050	3,750	1,500	2,700	150	2,200	350
PERCENT UNEMPLOYED							
1974 1/	7.5	9.8	8.5	9.5	9.0	8.8	14.5
1975 1/	8.0	9.9	9.1	9.8	11.3	9.0	15.7
1976 1/	9.6	11.2	9.3	10.4	13.0	9.8	14.4
1977 1/	7.3	9.1	6.4	7.3	8.0	6.9	10.0
1978 1/	7.5	9.8	6.5	7.3	10.4	6.6	10.5
1979 1/	6.1	7.8	5.3	6.0	5.5	5.5	10.8
1980 1/	4.6	6.3	4.2	5.2	8.2	4.4	14.3
1981 1/	4.9	7.6	5.7	6.0	10.7	5.3	13.0
1982	6.1	9.8	8.0	7.9	18.3	7.0	15.4
1983 1/	5.7	9.2	7.6	7.8	9.3	6.9	19.8
1984	5.3	8.0	6.8	6.2	11.6	5.5	14.1

1/ Revised from *Data Book 1984*, table 332.

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book* (March 1978), tables 2-8, as revised annually through April 1985.

Table 331.-- CHARACTERISTICS OF THE INSURED UNEMPLOYED: NOVEMBER 1983

[All claimants]

Subject	Number	Subject	Number
Total	12,960	Age:	
		Under 22 years	903
Race:		22 to 24 years	1,210
White	3,862	25 to 34 years	4,697
Black	168	35 to 44 years	2,846
Indian	13	45 to 54 years	1,738
Hispanic	91	55 to 64 years	1,408
Hawaiian	1,140	65 years and over	158
Chinese/Korean	661		
Filipino	2,424	Duration:	
Japanese	2,009	1 to 4 weeks	3,283
Other	2,320	5 to 14 weeks	5,307
Unknown	272	15 weeks and over	4,370
Sex:		Occupation:	
Male	7,734	Professional, technical, managerial	2,036
Female	5,226	Clerical, sales	2,547
		Services	2,356
Industry:		Farm/fish/forestry	497
State government	725	Processing	467
County government	96	Machine trades	297
Agriculture	454	Bench work	189
Construction	3,061	Structural work	3,528
Manufacturing	1,162	Miscellaneous	1,032
Food processing	654	Unknown	11
Transportation, communication, utilities	862		
Wholesale/retail trades	2,642		
Finance, insurance, real estate	660		
Services	3,253		
Hotel	1,143		
Others and unknown	45		

Source: Hawaii State Department of Labor and Industrial Relations, Characteristics of the Insured Unemployed in Hawaii -- 1983, pp. 10 and 13.

Table 332.-- JOBCOUNT, BY COUNTIES: ANNUAL AVERAGES, 1970 TO 1984

[Persons holding more than one job are counted in each position. As a result, these data differ from corresponding estimates of employment, reported elsewhere in this section. Active-duty armed forces are excluded, unless also employed in civilian jobs]

Year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
1970	331,580	270,310	28,410	12,540	20,320
1971	339,070	276,260	29,000	12,960	20,840
1972	349,950	285,900	29,450	13,050	21,550
1973	365,050	298,900	30,150	13,600	22,250
1974	374,650	306,350	31,000	13,600	23,650
1975	380,900	308,550	32,350	14,550	25,400
1976	387,000	312,100	33,000	15,250	26,600
1977	398,600	319,900	34,100	15,900	28,450
1978	417,500	334,400	35,400	16,650	30,950
1979	434,450	348,150	36,300	17,200	32,650
1980	444,100	354,800	37,150	18,200	34,050
1981	445,050	353,650	38,000	18,150	35,350
1982	440,500	347,850	37,800	18,050	36,850
1983 1/ .	448,550	353,100	38,600	18,700	38,150
1984	454,100	357,300	39,400	18,600	38,900

1/ Revised from Data Book 1984, table 336.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised annually through April 1985; Labor Force Statistics, Bull. No. 70-F and 72-F.

Table 333.-- JOBCOUNT, BY INDUSTRY: ANNUAL AVERAGES, 1975 TO 1984

Industry	1975	1976	1977	1978	1979
Nonagriculture, wage and salary	342,800	349,200	359,400	377,300	394,000
Contract construction	26,350	21,400	19,750	20,650	23,400
Manufacturing	23,650	23,400	23,200	23,700	23,900
Durable goods	4,800	4,550	4,600	4,700	4,800
Nondurable goods	18,850	18,800	18,600	19,000	19,100
Food processing	11,250	11,300	11,250	11,700	11,600
Sugar	4,450	4,350	3,950	4,150	3,950
Pineapple	2,800	2,850	3,050	3,200	3,200
Other	4,000	4,050	4,250	4,300	4,400
Textile, apparel	3,400	3,300	3,250	3,250	3,300
Printing, publishing	2,650	2,700	2,750	2,850	2,950
Other nondurables	1,550	1,550	1,350	1,200	1,250
Transp., commun., utilities ..	26,400	27,100	28,200	28,800	30,500
Transportation	17,450	18,200	19,200	19,950	21,200
Communication	6,400	6,400	6,500	6,350	6,750
Utilities	2,600	2,500	2,500	2,500	2,500
Trade	83,750	87,900	92,200	97,900	102,900
Wholesale	15,850	16,050	16,600	17,200	18,300
Retail	67,900	71,800	75,550	80,700	84,650
Finance, insur., real estate .	24,250	24,700	25,650	28,850	31,500
Services and miscellaneous ...	76,400	79,900	84,750	90,300	95,350
Hotels	19,950	20,900	22,100	22,850	24,100
Other services, misc.	56,500	59,000	62,650	67,450	71,250
Government	82,000	84,800	85,700	87,050	86,500
Federal	30,550	29,850	29,300	29,350	29,700
Air Force	3,300	3,200	3,050	2,850	2,750
Army	5,300	4,950	4,750	4,500	4,250
Navy	11,100	11,050	11,200	11,750	11,850
Other	10,850	10,600	10,250	10,250	10,800
State	38,700	41,350	42,650	43,350	43,300
Local	12,750	13,600	13,800	14,350	13,500
Agriculture, wage and salary ...	11,050	11,050	11,300	11,550	10,850
Sugar	5,200	5,050	5,000	4,900	5,000
Pineapple	2,300	2,200	2,400	2,550	2,550
Other	3,550	3,800	3,900	4,100	3,300
Nonagric., self-employed 2/	22,050	22,050	23,000	23,800	24,350
Agric., self-employed 3/	4,800	4,450	4,400	4,700	4,550
Labor disputes	200	250	500	150	700

Continued on next page.

Table 333.-- JOBCOUNT, BY INDUSTRY: ANNUAL AVERAGES, 1975 TO 1984 -- Con.

Industry	1980	1981	1982	1983 1/	1984
Nonagriculture, wage and salary	404,100	404,800	399,400	406,200	412,450
Contract construction	23,950	21,900	17,850	17,800	16,100
Manufacturing	23,350	23,000	22,400	22,350	21,800
Durable goods	4,700	4,250	3,900	3,600	3,250
Nondurable goods	18,650	18,750	18,550	18,750	18,550
Food processing	11,150	11,150	11,150	11,250	10,950
Sugar	3,900	3,950	3,850	3,750	3,700
Pineapple	2,900	2,800	2,750	2,550	2,150
Other	4,350	4,350	4,550	4,900	5,150
Textile, apparel	3,050	2,950	2,850	2,900	2,950
Printing, publishing	3,100	3,150	3,150	3,150	3,150
Other nondurables	1,350	1,500	1,400	1,450	1,450
Transp., commun., utilities	31,200	31,900	31,200	31,100	31,850
Transportation	21,500	21,900	21,150	21,100	21,950
Communication	7,150	7,400	7,500	7,550	7,500
Utilities	2,550	2,600	2,550	2,450	2,400
Trade	105,250	105,450	104,850	106,850	110,550
Wholesale	18,600	18,700	18,500	18,400	18,900
Retail	86,700	86,750	86,300	88,450	91,650
Finance, insur., real estate	32,850	31,700	31,500	31,900	31,850
Services and miscellaneous	98,450	101,900	101,200	104,950	108,550
Hotels	24,900	24,800	26,500	27,000	28,250
Other services, misc.	73,550	77,100	74,700	77,900	80,250
Government	89,050	89,000	90,300	91,300	91,700
Federal	30,000	30,350	31,500	32,100	32,000
Air Force	2,650	2,600	2,650	2,650	2,650
Army	4,100	4,300	4,650	4,850	5,000
Navy	11,950	12,500	13,100	13,350	12,950
Other	11,250	10,900	11,100	11,250	11,400
State	45,150	45,250	45,650	45,900	46,550
Local	13,900	13,350	13,150	13,300	13,200
Agriculture, wage and salary	10,650	11,550	11,300	11,200	10,800
Sugar	4,950	5,200	4,700	4,500	4,300
Pineapple	2,500	2,450	2,450	2,300	2,100
Other	3,200	3,950	4,150	4,400	4,400
Nonagric., self-employed 2/	24,350	24,300	25,750	27,100	26,750
Agric., self-employed 3/	4,500	4,350	3,950	3,900	3,650
Labor disputes	500	50	100	150	450

Footnotes and source follow next table.

Table 334.-- JOBCOUNT BY INDUSTRY, BY COUNTIES: ANNUAL AVERAGE, 1984

Industry	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
Nonagriculture, wage and salary	412,450	334,600	30,300	15,700	31,850
Contract construction	16,100	13,450	1,150	500	1,000
Manufacturing	21,800	15,700	2,800	1,300	2,000
Durable goods	3,250	2,900	100	(Z)	200
Nondurable goods	18,550	12,800	2,700	1,250	1,800
Food processing	10,950	5,900	2,350	1,100	1,600
Textile, apparel	2,950	2,850	(NS)	(NS)	(NS)
Printing, publishing	3,150	2,750	(NS)	(NS)	(NS)
Other nondurables	1,450	1,300	(NS)	(NS)	(NS)
Transp., commun., utilities .	31,850	26,350	1,950	1,700	1,900
Transportation	21,950	18,800	(NS)	(NS)	(NS)
Communication	7,500	5,850	(NS)	(NS)	(NS)
Utilities	2,400	1,650	(NS)	(NS)	(NS)
Trade	110,550	88,750	8,250	4,450	9,100
Wholesale	18,900	16,350	1,450	400	750
Retail	91,650	72,450	6,800	4,050	8,300
Finance, insur., real estate	31,850	27,300	1,350	850	2,400
Services and miscellaneous ..	108,550	85,300	8,100	4,200	10,900
Hotels	28,250	15,750	3,800	2,200	6,500
Other services, misc.	80,250	69,550	4,300	1,950	4,450
Government	91,700	77,800	6,700	2,750	4,500
Federal	32,000	30,900	600	250	300
Air Force	2,650	2,550	(NS)	(NS)	(NS)
Army	5,000	4,950	(NS)	(NS)	(NS)
Navy	12,950	12,900	(NS)	(NS)	(NS)
Other	11,400	10,550	(NS)	(NS)	(NS)
State	46,550	37,550	4,350	1,700	2,950
Local	13,200	9,350	1,750	800	1,250
Agriculture, wage and salary ..	10,800	2,500	3,800	1,300	3,250
Sugar	4,300	500	1,350	1,200	1,200
Pineapple	2,100	850	-	-	1,300
Other	4,400	1,150	2,400	150	750
Nonagric., self-employed 2/ ...	26,750	19,150	2,900	1,350	3,350
Agric., self-employed 3/	3,650	750	2,400	200	350
Labor disputes	450	300	(Z)	50	100

Z Fewer than 50.
NS Not shown separately.
1/ Revised from Data Book 1984, table 337.
2/ Includes unpaid family workers and domestics.
3/ Includes unpaid family workers.
Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised annually through April 1985.

Table 335.-- LABOR FORCE AND JOB ESTIMATES AND PROJECTIONS: 1980 TO 2005

[Thousands. Annual averages. Series M-F projections, recommended by DPED for State planning purposes]

Subject	Estimates		Projections			
	1980	1984	1990	1995	2000	2005
Civilian labor force 1/ (1,000)	439.0	473.0	533.4	575.6	607.9	627.7
Persons employed 1/	417.0	446.0	503.9	544.2	574.7	593.7
Total jobs (1,000)	499.5	514.4	572.3	613.4	644.5	663.9
Armed forces	58.4	60.8	58.4	58.4	58.4	58.4
Civilian jobs 1/	441.1	453.6	513.8	554.9	586.1	605.4
Self-employed	28.9	30.4	34.9	37.7	39.8	41.1
Wage and salary jobs by sector .	412.2	423.2	478.9	517.3	546.3	564.3
Agriculture	11.5	10.8	11.1	10.6	10.2	9.8
Food processing	11.5	11.0	11.0	10.8	10.5	10.3
Miscellaneous manufacturing ..	12.2	10.8	12.1	12.6	12.9	13.1
Construction	24.1	16.1	23.4	25.8	27.7	28.9
Transportation, communication, and utilities	30.9	31.8	35.5	38.3	40.2	40.6
Trade (exc. eating & drinking)	71.0	73.0	85.6	94.9	102.1	108.2
Eating and drinking places ...	34.5	37.6	43.6	47.8	50.6	51.9
Finance, insurance, and real estate	31.1	31.8	36.8	39.7	41.9	43.5
Hotels	24.8	28.2	31.8	35.0	36.9	37.1
Other services	71.7	80.2	88.4	96.8	103.5	108.0
State and local government ...	59.0	59.8	66.6	71.1	74.6	77.4
Federal government 1/	30.0	32.0	33.1	33.9	34.7	35.4

1/ Includes civilian employees of the armed forces.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised annually through April 1985, and 1984 Employment and Payrolls in Hawaii (September 1985); Hawaii State Department of Planning and Economic Development, Population and Economic Projections for the State of Hawaii, 1980-2005 (July 1984), p. 14, and Military Personnel and Dependents in Hawaii, 1984 (Statistical Report 168, October 10, 1984).

Table 336.-- EMPLOYMENT BY INDUSTRY: 1980 AND 1970

Industry	1980	1970
Employed persons 16 years and over	415,181	285,556
Agriculture, forestry, and fisheries	14,560	13,161
Mining	233	322
Construction	29,888	26,637
Manufacturing	32,914	31,188
Nondurable goods	21,234	21,173
Durable goods	11,680	10,015
Transportation, communications, and other public utilities	36,478	26,403
Wholesale and retail trade	98,542	61,044
Finance, insurance, and real estate	31,648	14,356
Business and repair services	17,832	8,978
Personal services	31,288	20,301
Entertainment and recreation services	6,862	3,756
Professional and related services	73,363	48,310
Public administration	41,573	31,100

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 61.

Table 337.-- EMPLOYMENT BY CLASS OF WORKER: 1940 TO 1980

[Persons 14 years and over through 1960; 16 years and over, 1970 and 1980]

Class of worker	1940	1950	1960	1970	1980
All employed civilians	153,796	167,571	209,370	285,556	415,181
Private wage and salary workers	113,551	111,036	144,602	200,912	300,315
Government workers	18,553	34,400	46,078	70,547	90,401
Self-employed workers	15,967	19,192	17,009	12,832	22,965
Unpaid family workers	5,725	2,943	1,681	1,265	1,500

Source: U.S. Bureau of the Census, U.S. Census of Population: 1960, General Social and Economic Characteristics, Hawaii, Final Report PC(1)-13C (February 1962), table 56; 1970 Census of Population, General Social and Economic Characteristics, Hawaii, PC(1)-C13 (December 1971), table 56; 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 67.

Table 338.-- OCCUPATION, BY SEX: 1980 AND 1970

Occupation	Both sexes		Females only	
	1980	1970	1980	1970
Employed persons 16 years and over ...	415,181	285,556	189,850	116,616
Managerial and professional specialty occupations	97,606	58,242	42,212	22,565
Executive, administrative, and managerial occupations	48,671	25,048	16,900	6,129
Professional specialty occupations	48,935	33,194	25,312	16,436
Technical, sales, and administrative support occupations	132,651	83,698	89,078	53,113
Technicians and related support occupation	11,982	7,442	4,501	2,027
Sales occupations	47,475	28,227	27,465	15,571
Administrative support occupations, including clerical	73,194	48,029	57,112	35,515
Service occupations	74,149	44,024	41,691	26,766
Private household occupations	1,547	2,131	1,376	2,024
Protective service occupations	7,578	4,304	855	143
Service occupations, except protective and household	65,024	37,589	39,460	24,599
Farming, forestry, and fishing occupations	14,154	12,572	2,785	2,118
Precision production, craft, and repair occupations	48,198	43,484	3,941	2,731
Operators, fabricators, and laborers	48,423	43,536	10,143	9,323
Machine operators, assemblers, and inspectors	14,000	13,589	5,730	5,743
Transportation and material moving occupations	16,430	13,767	1,132	472
Handlers, equipment cleaners, helpers, and laborers	17,993	16,180	3,281	3,108

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), table 61.

Table 339.-- CLASS OF WORKER AND INDUSTRY, BY COUNTIES: 1980

Subject	The State	Counties				
		Hawaii	Honolulu	Kala-wao	Kauai	Maui
CLASS OF WORKER						
Employed persons 16 years and over	415,181	38,150	324,113	82	18,223	34,613
Private wage and salary workers	300,315	27,226	231,719	24	13,885	27,461
Federal Government workers	32,244	909	30,207	3	508	617
State Government workers	43,814	4,945	34,268	48	1,715	2,838
Local Government workers	14,343	1,481	10,583	-	1,002	1,277
Self-employed workers	22,965	3,310	16,312	7	1,035	2,301
Unpaid family workers	1,500	279	1,024	-	78	119
INDUSTRY						
Employed persons 16 years and over	415,181	38,150	324,113	82	18,223	34,613
Agriculture, forestry, fisneries, and mining	14,793	4,272	5,662	1	1,762	3,096
Construction	29,888	3,477	21,423	-	1,621	3,367
Manufacturing	32,914	3,177	24,982	8	1,548	3,199
Nondurable goods	21,234	2,539	14,713	3	1,354	2,625
Durable goods	11,680	638	10,269	5	194	574
Transportation	25,392	1,524	21,174	2	1,015	1,677
Communications and other public utilities	11,086	812	8,771	-	668	835
Wholesale trade	16,089	1,477	13,286	7	462	857
Retail trade	82,453	6,683	66,358	4	3,089	6,319
Finance, insurance, and real estate	31,648	2,174	26,145	-	1,074	2,255
Business and repair services	17,832	1,251	14,726	-	527	1,328
Personal, entertainment, and recreation services	38,150	4,154	26,252	7	2,317	5,420
Professional and related services	73,363	6,378	59,927	6	2,713	4,339
Health services	22,390	1,700	18,429	4	873	1,384
Educational services	31,989	3,090	26,113	-	1,099	1,687
Other professional and related services	18,984	1,588	15,385	2	741	1,268
Public administration	41,573	2,771	35,407	47	1,427	1,921

Source: U.S. Bureau of the Census, *1980 Census of Population, General Social and Economic Characteristics, Hawaii*, PC80-1-C13 (June 1983), tables 67, 69, 176, and 178.

Table 340.-- OCCUPATION, BY COUNTIES: 1980

Occupation	The State	Counties				
		Hawaii	Honolulu	Kalawao	Kauai	Maui
Employed persons 16 years and over	415,181	38,150	324,113	82	18,223	34,613
Managerial and professional specialty occupations	97,606	7,648	79,934	15	3,499	6,510
Executive, administrative, and managerial occupations	48,671	3,518	39,971	7	1,545	3,630
Professional specialty occupations	48,935	4,130	39,963	8	1,954	2,880
Technical, sales, and administrative support occupations	132,651	9,956	109,521	15	4,554	8,605
Technicians and related support occupations	11,982	864	9,915	-	614	589
Sales occupations	47,475	3,996	38,367	1	1,683	3,428
Administrative support occupations, including clerical	73,194	5,096	61,239	14	2,257	4,588
Service occupations	74,149	6,283	56,939	17	3,742	7,168
Private household occupations	1,547	134	1,116	-	135	162
Protective service occupations	7,578	609	6,010	2	388	569
Service occupations, except protective and household	65,024	5,540	49,813	15	3,219	6,437
Farming, forestry, and fishing occupations	14,154	3,927	5,838	8	1,509	2,872
Precision production, craft, and repair occupations	48,198	4,848	36,546	20	2,345	4,439
Operators, fabricators, and laborers	48,423	5,488	35,335	7	2,574	5,019
Machine operators, assemblers, and inspectors	14,000	1,308	10,887	5	518	1,282
Transportation and material moving occupations	16,430	2,123	11,274	-	1,054	1,979
Handlers, equipment cleaners, helpers, and laborers	17,993	2,057	13,174	2	1,002	1,758

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), tables 68 and 177.

Table 341.-- EMPLOYMENT BY OCCUPATION AND INDUSTRY, BY SEX: 1983

[Refers to "usual activity" rather than to work during previous week, and is thus not directly comparable to other tables on labor force status, occupation, or industry in this section. Excludes persons in institutions or military barracks, or on Niihau. Based on a sample survey of 6,366 employed civilians]

Occupation and industry	Both sexes	Male	Female
Employed civilians, 16 years and over	406,205	217,390	188,816
Occupation:			
Managerial and professional specialty	96,816	54,019	42,797
Technical, sales, and administrative support .	134,281	42,722	91,559
Service	70,568	29,908	40,660
Farming, forestry, and fishing	17,223	13,122	4,101
Precision production, craft, and repair	47,170	44,531	2,638
Operators, fabricators, and laborers	37,322	31,433	5,889
Occupation not reported	2,825	1,654	1,170
Industry:			
Agriculture	20,351	15,360	4,990
Construction and mining	22,536	20,819	1,717
Manufacturing	18,065	11,426	6,639
Transportation, communication, utilities	32,254	22,686	9,569
Wholesale and retail trade	92,528	41,620	50,908
Finance, insurance and real estate	31,808	12,756	19,052
Services	135,292	57,442	77,850
Public administration, except armed forces ...	51,577	34,554	17,023
Not reported	1,795	727	1,068

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 342.-- PLACE OF RESIDENCE AND PLACE OF WORK OF EMPLOYED PERSON 16 YEARS AND OVER FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS: 1980

[Residence and labor force status as of April 1; place of work as of preceding week. Includes armed forces. For census tract maps, see pp. 24-25]

Census tract	Workers by place of -- Residence	Workers by place of -- Work 1/
County total	369,523	356,692
Honolulu CDP	183,677	246,969
1.02	962	250
1.03	5,482	532
1.04	3,515	110
1.05	2,860	1,117
2	2,579	455
3	2,841	561
4.01	1,391	174
4.02	2,077	201
5	2,320	3,594
6	945	750
7	1,829	439
8	2,175	911
9.01	1,423	418
9.02	2,087	218
9.03	1,469	557
10	1,792	128
11	1,552	256
12.01	1,575	1,152
12.02	1,828	59
13	2,300	1,735
14	1,428	146
15	1,986	422
16	2,298	577
17	1,263	1,644
18.01	571	4,570
18.02	1,725	1,009
19.01	571	11,832
19.02	3,014	2,596
20.01	1,318	8,457
20.02	1,895	1,547
21	2,057	2,220
22	4,004	586
23	3,123	638
24.01	1,517	64
24.02	1,737	730
25	2,145	1,416
Honolulu, con.:		
26	2,663	3,635
27.01	2,707	6,633
27.02	3,110	1,507
28	2,127	95
29	904	667
30	2,468	294
31.01	2,205	145
31.02	1,905	225
32	655	100
33	541	235
34.03	3,170	189
34.04	2,819	413
34.05	1,964	235
34.06	3,255	261
34.07	453	192
35	2,583	7,698
36.01	2,334	7,227
36.02	1,578	2,858
37	1,326	18,578
38	263	13,499
38.99	-	279
39	54	12,918
39.99	90	-
40	548	28,465
41	2,559	8,411
42	1,709	1,391
43	2,616	883
44	2,492	153
45	2,800	583
46	2,032	777
47	2,525	1,271
48	2,705	1,134
49	1,459	595
50	1,855	2,402
51	578	845
52	358	2,777
53	1,877	890
54	389	55

Continued on next page.

Table 342.-- PLACE OF RESIDENCE AND PLACE OF WORK OF EMPLOYED PERSON 16 YEARS AND OVER FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS: 1980 -- Con.

Census tract	Workers by place of --		Census tract	Workers by place of --	
	Residence	Work 1/		Residence	Work 1/
Honolulu, con.:			Rest of Oahu, con.:		
55	821	509	80.01	648	424
56	2,527	1,399	80.02	1,507	1,000
57	748	9,295	80.03	1,321	251
57.99	540	12	80.05	3,433	146
58	1,349	2,354	80.06	3,002	226
59	1,414	6,348	80.07	3,168	251
59.99	...	28	81	1,179	2,603
60	2,391	3,534	81.99	-	-
61	1,408	203	82	-	-
62.01	1,990	336	83	4,400	619
62.02	494	221	84	3,020	1,686
63.01	1,502	290	85	1,608	3,865
63.02	711	141	86.01	4,008	260
64.01	910	-	86.02	1,749	3,185
64.02	2,282	177	86.99	...	-
65	1,665	78	87.01	3,120	383
66	1,177	3,032	87.02	1,573	1,324
67.01	3,933	4,104	87.03	1,207	1,880
67.02	1,075	135	88	2,103	932
68.01	10,152	302	89.01	3,314	1,361
68.02	2,154	72	89.02	12,709	2,472
68.03	-	6,990	89.03	3,226	947
69	1,280	100	90	1,174	9
70	1,771	163	91	1,476	223
71	939	11,805	92	3,412	1,682
72	1,071	14,656	93	1,702	11,323
114	...	-	94	2,320	(NA)
			95.01	1,044	229
Rest of Oahu	185,846	109,723	95.02	1,828	349
73	2,632	1,707	95.03	6,120	7,125
73.99	-	-	95.04	330	(NA)
74	2,098	9,538	95.05	1,069	(NA)
74.99	7,614	30	96.01	1,550	1,222
75.01	3,164	110	96.03	1,578	
75.02	323	66	96.04	1,179	
75.03	2,695	191	97	3,415	3,105
76	493	193	98	1,889	
77.01	2,142	1,018	99.01	2,396	864
77.02	2,470	159	99.02	942	1,167
78.01	6,730	(NA)	100	1,067	
78.02	6,567	5,217	101	1,912	(NA)

Continued on next page.

Table 342.-- PLACE OF RESIDENCE AND PLACE OF WORK OF EMPLOYED PERSON 16 YEARS AND OVER FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS: 1980 -- Con.

Census tract	Workers by place of --		Census tract	Workers by place of --	
	Residence	Work 1/		Residence	Work 1/
Rest of Oahu, con.:			Rest of Oahu, con.:		
102.01	1,526	(NA)	108.99	34	-
102.02	2,273	2,214	109.01	1,571	424
103.02	1,637	43	109.03	1,763	660
103.03	1,402	(NA)	109.04	1,636	390
103.04	4,678	(NA)	109.05	1,111	1,321
105.01	4,122	1,151	110	1,952	513
105.03	874	451	111.01	3,874	2,112
105.04	1,997	417	111.03	1,774	108
106.01	1,330	204	111.04	2,550	479
106.02	2,405	726	112.01	2,262	597
107.01	1,761	302	112.02	802	388
107.02	1,758	216	113	3,545	1,121
108	7,571	7,714	Unknown 2/	-	19,769

NA Not available.

1/ Tract data exclude residents who worked away from the City and County of Honolulu and nonresidents who worked within the area. Totals and subtotals (but not tract data) include imputed values for persons not reporting exact tract locations.

2/ Included in subtotals (see preceding footnote).

Source: U.S. Bureau of the Census, 1980 Census of Population and Housing, Census Tracts, Honolulu SMSA, PHC80-2-183 (1983), and Urban Transportation Planning Package, printouts (March 1985).

Table 343.-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES: 1974 TO 1984

Year	Number of employers, December	Average employment	Wages and salaries	
			Total ($1,000)	Per worker (dollars)
INCLUDING GOVERNMENT				
1974	15,914	342,683	3,114,073	9,087
1975	16,558	349,887	3,417,570	9,767
1976	17,130	356,217	3,685,818	10,347
1977	17,831	366,555	3,996,746	10,903
1978	18,847	383,451	4,459,594	11,630
1979	19,639	400,963	4,983,844	12,429
1980	19,988	412,281	5,585,489	13,548
1981	20,190	414,830	6,002,943	14,471
1982	20,259	408,791	6,281,953	15,367
1983	20,937	413,767	6,668,001	16,115
1984	21,288	421,821	7,050,512	16,714
EXCLUDING GOVERNMENT				
1979	19,633	314,447	3,689,161	11,732
1980	19,982	323,307	4,105,082	12,697
1981	20,184	325,897	4,423,850	13,574
1982	20,253	320,885	4,563,866	14,223
1983	20,931	325,650	4,848,497	14,889
1984	21,282	332,227	5,150,338	15,502
PRIVATE NON-AGRICULTURAL				
1978	18,431	285,313	3,083,421	10,807
1979	19,213	303,305	3,551,436	11,709
1980	19,597	311,808	3,956,617	12,689
1981	19,799	314,016	4,261,467	13,571
1982	19,876	309,531	4,412,058	14,254
1983	20,515	314,142	4,679,895	14,897
1984	20,856	320,902	4,973,005	15,497

Source: Hawaii State Department of Labor and Industrial Relations, Employment and Payrolls in Hawaii (annual) and records.

Table 344.-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY COUNTIES: 1984

County or island	Number of employers, Dec.	Average employment	Total wages ($1,000)	Average annual wage (dollars)
INCLUDING GOVERNMENT				
State total	21,288	421,821	7,050,512	16,714
City and Co. of Honolulu .	16,175	336,315	5,787,610	17,209
Hawaii County	2,189	33,525	498,801	14,878
Maui County	1,967	35,008	517,726	14,789
Kauai County	963	16,973	246,376	14,516
EXCLUDING GOVERNMENT				
State total	21,282	332,227	5,150,338	15,502
City and Co. of Honolulu .	16,172	260,751	4,159,618	15,952
Hawaii County	2,186	26,733	368,077	13,769
Maui County	1,964	30,461	429,637	14,105
Kauai County	960	14,282	193,005	13,514

Source: Hawaii State Department of Labor and Industrial Relations, 1984 Employment and Payrolls in Hawaii (September 1985).

Table 345.-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY INDUSTRY: 1984

Industry	Number of employers, Dec.	Average employment	Total wages ($1,000)	Average annual wage (dollars)
All industries	21,288	421,821	7,050,512	16,714
Government	6	89,595	1,900,174	21,208
Federal	1	33,270	855,447	25,712
State	1	43,123	785,551	18,217
County	4	13,201	259,175	19,633
Private	21,282	332,227	5,150,338	15,502
Agriculture, forestry, fisheries	426	11,325	177,334	15,659
Sugar	12	3,225	66,569	20,642
Pineapple	5	1,989	29,520	14,841
Other	409	6,111	81,245	13,295
Mining and contract construction	1,595	15,788	410,971	26,031
Manufacturing	825	22,086	373,606	16,916
Sugar mills	12	3,117	52,099	16,715
Pineapple canning	2	2,241	32,839	14,654
Other food processing	195	5,210	83,228	15,975
Other manufacturing	616	11,518	205,440	17,836
Transportation	901	22,150	431,917	19,500
Communications	102	7,502	196,923	26,249
Utilities	39	2,395	75,089	31,353
Wholesale trade: Durable	885	8,981	191,810	21,357
Non-durable	974	9,962	167,196	16,783
Retail trade	4,748	91,876	942,500	10,258
Eating and drinking places	1,553	37,628	275,397	7,319
Other retail trade	3,195	54,248	667,103	12,297
Finance, insurance, real estate	2,925	31,977	552,109	17,266
Services	7,782	107,928	1,626,084	15,066
Hotels, rooming houses, etc.	190	28,262	369,292	13,067
Health services	1,746	21,224	435,035	20,497
Other services	5,846	58,442	821,757	14,061
Nonclassifiable establishments	80	257	4,799	18,673

Source: Hawaii State Department of Labor and Industrial Relations, _1984 Employment and Payrolls in Hawaii_ (September 1985).

Table 346.-- AVERAGE ANNUAL WAGE FOR EMPLOYEES COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, IN CURRENT AND CONSTANT DOLLARS, BY CLASS OF WORKER: 1974 AND 1984

Class of worker	1974: current dollars	1984		Percent change, 1974-1984	
		Current dollars	1974 dollars 1/	Current dollars	1974 dollars 1/
All classes ..	9,087	16,714	8,328	83.9	-8.4
Federal	12,876	25,712	12,811	99.7	-0.5
State 2/	10,026	18,217	9,077	81.7	-9.5
County	10,229	19,633	9,782	91.9	-4.4
Private	8,462	15,502	7,724	83.2	-8.7

1/ Deflated by the all-items consumer price index (CPI-U) for Honolulu. The all-items index increased 100.7 percent during this period.

2/ Average for 1974 is overstated because of erroneous inclusion of uncovered student workers, omitted in 1984 data.

Source: Hawaii State Department of Labor and Industrial Relations, Employment and Payrolls in Hawaii (annual).

Table 347.-- NONGOVERNMENTAL REPORTING UNITS AND EMPLOYMENT, BY SIZE OF FIRM: 1984

Subject	All units	Employment-size class					
		1 to 4	5 to 9	10 to 19	20 to 49	50 to 99	100 or more
Reporting units ..	21,282	11,410	4,308	2,676	1,794	592	502
Employment	335,003	23,165	28,435	36,157	54,113	41,033	152,100

Source: Hawaii State Department of Labor and Industrial Relations, 1984 Employment and Payrolls in Hawaii (September 1985), p. 16.

Table 348.-- ANNUAL WAGES PER EMPLOYEE, TOTAL AND PRIVATE: 1975 TO 1983

Year	Annual wages per employee (dollars)		Hawaii as percent of U.S.		Rank 1/	
	Total	Private only	Total	Private only	Total	Private only
1975	9,751	9,110	97.5	92.7	20	27
1976	10,309	9,586	96.2	91.0	24	29
1977	10,873	10,029	95.1	89.1	26	33
1978	11,607	10,809	95.8	89.7	29	33
1979	12,335	11,700	94.1	89.4	27	34
1980	13,491	12,695	94.2	88.6	27	37
1981	14,411	13,567	92.2	86.9	32	41
1982	15,353	14,202	92.0	85.5	31	42
1983 2/	16,108	14,898	92.1	85.8	30	40

1/ Among 50 States and D.C.

2/ Preliminary.

Source: U.S. Bureau of Labor Statistics, Employment and Wages, Annual Average (annual report).

Table 349.-- MINIMUM WAGE CHRONOLOGY: 1975 TO 1985

[Dollars per hour]

Effective date	Minimum wage
1975: July 1 1/	2.40
1978: July 1	2.65
1979: July 1	2.90
1980: July 1	3.10
1981: July 1 2/	3.35

1/ For earlier years, see Data Book 1983, table 310.

2/ Currently in effect as of July 1, 1985.

Source: Hawaii State Department of Labor and Industrial Relations, records.

Table 350.-- HOURS AND EARNINGS IN SPECIFIED INDUSTRIES: ANNUAL AVERAGES, 1979 TO 1984

Subject	1979	1980	1981	1982	1983	1984
Average weekly earnings (dollars)						
Contract construction	397.80	428.97	475.31	519.10	587.76	607.37
Manufacturing	244.35	258.17	289.90	301.68	317.68	318.14
Food and kindred products ..	217.74	238.26	274.31	281.86	291.65	292.98
Communication and utilities ..	378.35	421.16	433.70	486.41	486.22	512.09
Trade 1/	173.01	184.82	198.99	213.81	225.12	225.72
Wholesale trade	238.23	252.50	275.88	290.67	302.13	309.75
Retail trade 1/	151.69	162.30	174.27	189.21	199.69	198.13
Banking & credit agencies 2/..	174.83	185.58	212.64	222.49	237.73	237.78
Hotels	166.52	173.72	193.64	208.98	222.95	234.57
Laundries	144.77	151.25	161.55	...	...	...
Average weekly hours						
Contract construction	36.0	36.2	36.2	35.8	37.2	36.9
Manufacturing	38.3	37.8	38.5	37.9	38.6	38.1
Food and kindred products ..	38.0	37.7	39.3	38.4	39.2	38.0
Communication and utilities ..	44.2	44.9	43.5	43.9	41.7	41.0
Trade 1/	33.4	33.3	33.0	33.2	33.4	33.0
Wholesale trade	38.3	38.2	38.0	37.7	38.1	38.1
Retail trade 1/	31.8	31.7	31.4	31.8	31.9	31.3
Banking & credit agencies 2/..	...	...	...	...	...	38.6
Hotels	31.9	31.3	32.6	32.5	32.5	33.8
Laundries	37.8	36.8	36.8	...	...	...
Average hourly earnings (dollars)						
Contract construction	11.05	11.85	13.13	14.50	15.80	16.46
Manufacturing	6.38	6.83	7.53	7.96	8.23	8.35
Food and kindred products ..	5.73	6.32	6.98	7.34	7.44	7.71
Communication and utilities ..	8.56	9.38	9.97	11.08	11.66	12.49
Trade 1/	5.18	5.55	6.03	6.44	6.74	6.84
Wholesale trade	6.22	6.61	7.26	7.71	7.93	8.13
Retail trade 1/	4.77	5.12	5.55	5.95	6.26	6.33
Banking & credit agencies 2/..	...	...	...	...	...	6.16
Hotels	5.22	5.55	5.94	6.43	6.86	6.94
Laundries	3.83	4.11	4.39	...	...	...

1/ Excludes eating and drinking establishments.

2/ Designated "Finance" before 1982.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised April 1985.

Table 351.-- AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS IN PRIVATE INDUSTRY: 1974 TO 1985

[Statewide averages, in dollars]

Job classification	1974	1975	1976	1977	1978	1979
MONTHLY RATES						
Junior typist	504	541	579	615	660	712
Clerk-stenographer	624	671	757	801	821	828
Secretary	697	760	846	906	970	994
Data entry operator	602	639	703	753	798	829
Bookkeeper, full-charge	801	886	930	956	1,029	1,171
Engineering drafting technician	1,013	1,049	1,122	1,167	1,233	1,267
Hospital attendant	497	532	604	639	675	730
Staff nurse	869	943	1,037	1,100	1,164	1,207
HOURLY RATES						
Housekeeper	2.936	3.159	3.416	3.537	3.876	4.197
Cook, general	4.349	4.740	5.129	5.476	5.857	6.306
Waiter/waitress	2.101	2.304	2.415	2.446	2.676	2.897
Laborer (light)	3.069	3.435	3.789	4.322	4.619	4.684
Carpenter (maintenance)	5.427	5.836	6.387	7.035	7.538	7.913
Electrician (maintenance) ...	5.929	7.015	7.879	8.546	9.155	9.456
Automotive mechanic	5.247	5.683	6.213	6.792	7.267	7.634
Truck driver (1.5-5 tons) ...	4.363	4.936	5.266	5.782	6.056	6.387

Continued on next page.

Table 351.-- AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS IN PRIVATE INDUSTRY: 1974 TO 1985 -- Con.

Job classification	1980	1981	1982	1983	1984	1985
MONTHLY RATES						
Junior typist	750	839	903	975	1,013	1,036
Clerk-stenographer	989	1,085	1,194	1,250	1,296	1,384
Secretary	1,016	1,128	1,199	1,256	1,341	1,407
Data entry operator	888	967	1,004	1,072	1,134	1,139
Bookkeeper, full-charge	1,246	1,395	1,453	1,580	1,647	1,707
Engineering drafting technician	1,373	1,470	1,648	1,804	1,898	1,952
Hospital attendant	791	847	939	1,018	1,057	1,101
Staff nurse	1,288	1,492	1,669	1,875	1,978	2,081
HOURLY RATES						
Housekeeper	4.500	4.808	5.193	5.580	5.806	6.078
Cook, general	6.676	7.162	7.505	8.048	8.308	8.626
Waiter/waitress	3.111	3.312	3.377	3.483	3.586	3.676
Laborer (light)	5.483	6.008	6.360	6.506	6.688	6.959
Carpenter (maintenance)	7.757	8.521	9.075	9.362	9.769	10.139
Electrician (maintenance) ...	8.613	9.407	10.327	10.745	11.243	11.529
Automotive mechanic	8.230	9.077	9.543	9.697	10.152	10.191
Truck driver (1.5-5 tons) ...	6.409	7.162	7.708	8.288	8.576	8.853

Source: Hawaii Employers Council, Pay Rates in Hawaii (annual).

Table 352.-- AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS IN PRIVATE INDUSTRY, BY COUNTIES OR ISLANDS: 1984 AND 1985

[In dollars]

Job classification and year	State average	Kauai	Oahu	Maui County	Hawaii County
MONTHLY RATES					
Junior typist 1984	1,013	...	1,008	...	...
1985	1,036	...	1,037	...	...
Clerk-stenographer 1984	1,296	...	1,283	...	...
1985	1,384	...	1,365	...	...
Secretary 1984	1,341	1,327	1,336	1,402	1,373
1985	1,407	1,379	1,404	1,475	1,355
Data entry operator 1984	1,134	1,151	1,123	...	1,269
1985	1,139	...	1,129	...	1,286
Bookkeeper, full-charge . 1984	1,647	...	1,604	...	...
1985	1,707	...	1,641	...	...
Engineering drafting technician 1984	1,898	...	1,903	...	1,882
1985	1,952	...	1,955	...	...
Hospital attendant 1984	1,057	1,013	1,072	1,070	953
1985	1,101	1,010	1,126	1,109	1,010
Staff nurse 1984	1,978	2,003	1,977	1,973	...
1985	2,081	2,096	2,080	2,094	...
HOURLY RATES					
Housekeeper 1984	5.806	5.806	5.822	5.790	5.632
1985	6.078	5.920	6.128	5.996	5.927
Cook, general 1984	8.308	9.074	7.914	9.137	8.812
1985	8.626	9.366	8.333	9.363	8.727
Waiter/waitress 1984	3.586	3.668	3.555	3.685	3.731
1985	3.676	3.717	3.637	3.789	3.896
Laborer (light) 1984	6.688	7.029	6.668	6.726	6.376
1985	6.959	7.752	6.811	6.954	6.577
Carpenter (maintenance) . 1984	9.769	9.464	9.910	9.909	9.174
1985	10.139	9.632	10.456	10.261	9.215
Electrician (maintenance) 1984	11.243	10.604	12.050	9.951	10.668
1985	11.529	10.852	12.656	10.024	11.254
Automotive mechanic 1984	10.152	9.641	10.794	9.703	9.715
1985	10.191	9.727	11.060	9.658	9.541
Truck driver (1.5-5 tons) 1984	8.576	...	9.344	7.871	7.501
1985	8.853	...	9.599	8.044	8.044

Source: Hawaii Employers Council, Pay Rates in Hawaii (Special Publication No. 163, September 1984, and Research Report No. 2126, September 1985).

Table 353.-- INTERSTATE MOVEMENT OF JOB-SEEKERS: 1974 TO 1984

Calendar year	Island workers on the Mainland 1/		Mainland workers in Hawaii 2/		Ratio 3/
	Total 4/	Regular only	Total 4/	Regular only	
1974	5,924	5,924	7,284	6,988	118
1975	9,425	7,607	9,478	8,785	115
1976	9,934	7,458	8,994	8,334	112
1977	7,090	5,846	8,846	8,154	139
1978	4,495	4,313	6,533	6,261	145
1979 5/	4,272	4,272	5,285	5,250	123
1980	5,633	5,211	5,196	4,956	95
1981	5,619	5,485	4,552	4,396	80
1982	5,372	5,372	5,259	4,848	90
1983	4,414	4,414	4,891	4,659	106
1984	4,123	4,123	4,242	4,219	102

1/ Interstate liable initial claims (UI and Supp.), excluding UCFE and Supp. and UCX. Covers Hawaii workers seeking work and filing for benefits on the Mainland. Since July 1980, data have included Federal civilian employees and ex-servicemen.

2/ Interstate agent initial claims (UI and Supp.), excluding UCFE and Supp. and UCX. Covers Mainland workers filing claims for unemployment insurance and registered for work with the Hawaii State Employment Service.

3/ Interstate agent initial claims (regular only) as a percent of inter-state liable initial claims (regular only). Ratios under 100 suggest a net out-migration of workers.

4/ Regular and extended claims.

5/ The method of counting liable and agent initial claims was revised effective October 1979. Data for 1979 and later years are accordingly not directly comparable with figures for earlier years.

Source: Hawaii State Department of Labor and Industrial Relations, Unemployment Insurance Fact Book (August 1984), p. 27 and p. 48; and records.

Table 354.-- LABOR FORCE STATUS AND INDUSTRY, BY PLACE OF BIRTH AND RESIDENCE IN 1975: 1980

Place of birth or residence in 1975	Employed civilians					Armed forces	Unemployed
	Total	Hotels	Eating, drinking places	Air transportation	Other industries		
PLACE OF BIRTH 1/							
Total	416,400	23,940	30,000	7,980	354,480	57,920	19,700
Hawaii	249,700	12,220	13,480	5,020	218,980	2,600	10,360
Percent 2/	60.3	51.3	45.3	62.9	62.2	4.5	52.8
Other State	96,000	4,000	7,160	2,120	82,720	49,920	5,700
Terr. or poss. 3/ ..	1,960	40	100	20	1,800	820	180
Foreign country	66,200	7,540	9,000	820	48,840	4,260	3,380
Not reported	2,540	140	260	-	2,140	320	80
RESIDENCE IN 1975 4/							
Total	418,440	24,440	30,040	8,480	355,480	57,240	19,680
Hawaii	349,240	20,280	23,360	6,960	298,640	5,960	13,640
Percent	83.5	83.0	77.8	82.1	84.0	10.4	69.3
Other State	48,360	2,120	4,200	1,360	40,680	45,400	4,240
Terr. or poss.	1,720	40	240	-	1,440	880	280
Foreign country	19,120	2,000	2,240	160	14,720	5,000	1,520

1/ Based on 5-percent Public Use Microdata Sample.
2/ Based on number reporting place of birth.
3/ Includes persons born at sea or abroad to U.S. parents
4/ Based on 2.5-percent Public Use Microdata Sample.

Source: U.S. Bureau of the Census, Census of Population and Housing, 1980: Public-Use Microdata Sample A, Hawaii [machine-readable data file]/prepared by the Bureau of the Census -- Washington: The Bureau [producer and distributor], 1983; special tabulation by DPED.

Table 355.-- DISABILITY STATUS OF NONINSTITUTIONAL PERSONS, BY COUNTIES: 1980

Subject	State total 1/	Counties			
		Hawaii	Honolulu	Kauai	Maui
WORK DISABILITY STATUS					
Male, 16 to 64 years	330,805	28,928	266,837	12,166	22,810
With a work disability	21,163	2,476	16,290	738	1,642
Not in labor force	9,751	1,274	7,496	273	698
Prevented from working .	7,905	1,026	6,032	240	603
Female, 16 to 64 years	314,188	28,811	250,672	12,025	22,637
With a work disability	17,018	2,101	13,062	590	1,252
Not in labor force	11,764	1,552	9,035	390	779
Prevented from working .	8,550	1,151	6,524	311	560
PUBLIC TRANSPORTATION DISABILITY STATUS					
Persons 16 to 64 years	644,993	57,739	517,509	24,191	45,447
With a public transportation disability	7,700	1,014	5,938	246	499
With a work disability ...	7,203	977	5,562	205	456
Persons 65 years and over	72,917	8,967	53,019	4,142	6,752
With a public transportation disability	8,503	840	6,595	512	546

1/ Includes Kalawao County, not shown separately.

Source: U.S. Bureau of the Census, *1980 Census of Population, General Social and Economic Characteristics, Hawaii*, PC80-1-C13 (June 1983), tables 70 and 179.

Table 356.-- RECORDABLE OCCUPATIONAL INJURIES AND ILLNESSES OF NONGOVERNMENTAL WORKERS: 1982 AND 1983

[Data exclude agricultural employers with fewer than 11 employees]

Subject	1982: total	1983		
		Total	Injuries	Illnesses
Recordable cases	28,527	27,248	26,735	513
Lost workday cases	15,477	14,529	14,280	249
Lost workdays	214,346	226,697	222,105	4,592
Per lost workday case	14	16	16	18
Nonfatal cases without lost workdays.	12,755	12,690	12,448	242
Incidence per 100 full-time workers	11.4	10.6	10.4	0.2
Agriculture	22.1	19.6	19.3	0.3
Mining	1.1	3.9	3.9	0
Construction	24.1	23.0	22.7	0.3
Manufacturing	15.4	15.0	14.7	0.3
Transportation, public utilities	13.4	12.7	12.5	0.2
Wholesale and retail trade	9.3	9.7	9.6	0.1
Finance, insurance, real estate	5.1	4.0	3.9	(Z)
Services	10.4	8.9	8.6	0.3

Z Less than 0.05.

Source: Hawaii State Department of Labor and Industrial Relations, 1983 Occupational Injuries and Illnesses Survey, State of Hawaii, p. 5.

Table 357.-- INDUSTRIAL ACCIDENTS, DEATHS, AND INSURANCE PAYMENTS: 1978 TO 1983

Year	Accidents		Deaths		Insurance payments ($1,000)
	Number	Rate 1/	Number	Rate 2/	
1978	38,869	54.10	48	5.2	32,847
1979	43,057	57.01	49	5.2	42,573
1980	47,725	62.01	49	5.1	55,331
1981	44,320	57.50	36	3.7	66,950
1982	40,521	53.19	47	4.7	90,778
1983	39,013	51.05	48	4.7	103,338

1/ Accidental injuries per 1,000,000 estimated non-federal wage and salary employee hours.

2/ Accidental deaths per 100,000 total resident population, July 1.

Source: Hawaii State Department of Labor and Industrial Relations, records.

Table 358.-- LABOR TURNOVER RATES IN MANUFACTURING: 1979 TO 1981

[Turnover per 100 wage and salary employees. Excludes pineapple canning. This survey was discontinued after 1981]

Year	Accessions			Separations		
	Total	New hires	Re-calls	Total	Quits	Layoffs
1979	3.2	1.8	1.0	3.4	1.2	1.4
1980	2.9	1.6	1.0	3.3	1.1	1.6
1981	2.3	1.2	0.8	2.5	0.7	1.2

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), pp. 95-96, as revised May 1982.

Table 359.-- MEMBERSHIP IN LABOR UNIONS AND EMPLOYEE ASSOCIATIONS: 1956 TO 1980

[Numbers in thousands. This series was discontinued after 1980]

Year	Total unions and associations		Labor unions				Professional and State employee associations
					Unaffiliated		
	Number	Percent of nonagricultural employment	Total	Affiliated with AFL-CIO	National	Local unions	
1956 1/	(NA)	(NA)	35	10	25	(NA)	(NA)
1958 1/	(NA)	(NA)	36	13	24	(NA)	(NA)
1964 1/	(NA)	(NA)	49	24	24	(NA)	(NA)
1966 ..	(NA)	(NA)	62	31	25	7	(NA)
1968 ..	77	30.2	70	36	27	7	7
1970 ..	89	30.3	82	45	30	7	8
1972 ..	123	39.9	115	78	30	7	9
1974 ..	129	38.7	121	84	29	7	8
1976 ..	140	40.1	129	95	33	(Z)	12
1978 ..	134	35.8	120	94	27	(Z)	14
1980 2/	113	27.9	(NA)	(NA)	(NA)	(NA)	(NA)

Z Fewer than 500.
NA Not available.
1/ Data limited to national and international unions.
2/ Not tabulated separately for unions and employee associations.

Source: U.S. Department of Labor, Bureau of Labor Statistics, Handbook of Labor Statistics 1978 (Bulletin 2000, 1979), p. 504, and data supplied February 25, 1980 and March 12, 1982; Statistical Abstract of the United States: 1985, p. 424.

Table 360-- LABOR UNIONS AND EMPLOYEE ASSOCIATIONS: 1980 AND 1984

Subject	1980	1984
Total unions and associations	140	79
Employee membership	138,052	151,000

Source: Estimates by University of Hawaii, Industrial Relations Center, cited in Honolulu Star-Bulletin, September 2, 1985, p. A-1.

Table 361.-- STATE AND COUNTY EMPLOYEES IN COLLECTIVE BARGAINING UNITS: 1979 TO 1984

[As of December 31]

Year	Total	State employees	County employees
1979	40,026	30,123	9,903
1980	40,511	30,609	9,902
1981	41,132	31,184	9,948
1982	41,948	31,629	10,319
1983	42,296	31,915	10,381
1984	42,171	31,705	10,466
Collective bargaining agent (union): 1984			
HGEA	17,117	13,305	3,812
UPW	9,639	6,486	3,153
HSTA	9,044	9,044	-
UHPA (UH faculty)	2,719	2,719	-
SHOPO (police officers)	2,143	-	2,143
HFFA (firefighters)	1,509	151	1,358

Source: Hawaii Public Employment Relations Board, HPERB Informational Bulletin, No. 22 (March 16, 1985), and earlier issues.

Table 362.-- WORK STOPPAGES: 1979 TO 1984

[Data exclude stoppages lasting less than one full shift (8 hours) and stoppages affecting fewer than 6 workers. Beginning with 1982, these data also exclude stoppages not begun or in progress during the week containing the 12th of each month during the year]

Year	Number of stoppages 1/	Workers involved 1/	Man-days lost 2/
1979	10	10,380	229,880
1980	9	6,886	138,490
1981	9	890	8,650
1982	7	911	14,480
1983	7	2,838	44,411
1984	6	2,063	123,486

1/ Stoppages carrying over from previous year are counted in both years.

2/ Partly estimated.

Source: Hawaii State Department of Labor and Industrial Relations, Research and Statistics Office, records.

Table 363.-- WORK STOPPAGES INVOLVING 1,000 OR MORE WORKERS: 1982 TO 1984

Year	Number of stoppages begun in year	Workers involved 1/	Man-days idle during year	Percent of estimated nonagricultural working time
1982	-	-	-	0
1983	1	2,800	5,600	0.01
1984	1	1,000	70,000	0.01

1/ Workers counted more than once if involved in more than one stoppage during year.

Source: U.S. Department of Labor, Bureau of Labor Statistics, records.

Section 13

INCOME, EXPENDITURES, AND WEALTH

This section presents statistics on two different aspects of income and expenditures, one relating to the State income and product system and the other to the distribution of income to families, households and individuals. Specifically, information is given on gross state product, income by industry, personal income, family and household income, poverty, personal wealth, and family expenditures. Data on wage rates, salaries, and earnings appear in Sections 3, 9, 12, and 22; on industrial payrolls, in Sections 12, 15, and 20 through 23; on the family income of visitors, in Section 7; on retirement payments and public assistance, in Sections 10 and 11; on taxable income, in Section 9.

Gross state product in 1983 amounted to approximately $14 billion, or double the 1965 total after adjustment for inflation. The major sources of outside income to Hawaii in 1984 were defense expenditures ($1.87 billion), pineapple production ($250 million), sugar production ($393 million), and visitor expenditures ($4.6 billion). Personal income in 1984 was $13.5 billion, compared with $5.3 billion only ten years earlier, and per capita personal income was $11,767, more than twice the 1974 level. The per capita figure for Hawaii exceeded the national average by only 2 percent, and thus failed to compensate for the Islands' much higher cost of living. The median annual income of families, based on data for 1982-1983, was $24,800; for unrelated individuals, the median was $12,100. The official poverty threshold for a 4-person nonfarm family in Hawaii was set in March 1985 at $12,250. The most recent family expenditure survey, taken in 1972 and 1973, reported that the largest items in the family budget on Oahu were housing (accounting for 33.8 percent of spending for current consumption), food (20.4 percent) and transportation (19.1 percent). Top wealthholders in 1982 included 14,000 persons with assets of $300,000 or more and 800 millionaires.

The chief sources of data shown in this section are the U.S. Bureau of Economic Analysis, U.S. Bureau of the Census, U.S. Bureau of Labor Statistics, U.S. Department of Health and Human Services, Internal Revenue Service, Hawaii Agricultural Reporting Service, Hawaii State Department of Health and Department of Planning and Economic Development, and Hawaii Visitors Bureau. Sections 6 and 7 of Historical Statistics of Hawaii present data for earlier years. Comparable data for the country as a whole are given in Statistical Abstract of the United States: 1985, Section 15.

Table 364.-- DIRECT INCOME FROM MAJOR EXPORT INDUSTRIES: 1974 TO 1984

[In millions of dollars]

Year	Total for four major industries	Value of production		Defense expenditures 1/	Visitor expenditures 2/
		Raw sugar and molasses 3/	Fresh and processed pineapple		
1974 ...	2,927	676.6	127.1	897.9	1,225
1975 ...	2,846	366.1	136.7	982.8	1,360
1976 ...	3,076	257.0	144.5	1,034.2	1,640
1977 ...	3,320	226.8	161.6	1,086.6	1,845
1978 ...	3,750	285.2	162.8	1,155.5	2,146
1979 ...	4,311	345.7	206.4	1,221.8	2,537
1980 ...	5,013	594.1	226.5	1,317.4	2,875
1981 ...	5,195	327.9	217.6	1,449.3	3,200
1982 ...	5,951	351.5	206.0	1,693.4	3,700
1983 4/	6,451	410.2	219.0	1,848.2	3,974
1984 ...	7,092	393.0	249.6	1,867.2	4,582

1/ Does not include military retired pay, Hawaii National Guard expenditures, or U.S. Army Corps of Engineers contracts.

2/ Direct visitor expenditures in Hawaii, exclusive of transpacific transportation and expenditures of carriers and crews. Estimates for 1981 and later years are provisional.

3/ Excludes government sugar support payments.

4/ Revised from Data Book 1984, table 368.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual) and records; data supplied to DPED by armed forces; Hawaii Visitors Bureau, 1984 Annual Research Report, table 1.

Table 365.-- GROSS STATE PRODUCT AND PER CAPITA GROSS STATE PRODUCT: 1958 TO 1983

Year	Gross state product (millions of dollars)		Per capita gross state product (dollars)	
	Current dollars	1972 dollars	Current dollars	1972 dollars
1958	1,415,074	2,221,200	2,338	3,669
1959	1,572,404	2,331,300	2,528	3,748
1960	1,804,679	2,626,400	2,813	4,094
1961	1,885,624	2,686,600	2,863	4,079
1962	1,964,798	2,739,600	2,875	4,008
1963	2,100,744	2,803,200	3,079	4,109
1964	2,301,041	3,076,400	3,288	4,396
1965	2,530,272	3,370,500	3,595	4,789
1966	2,771,021	3,560,800	3,901	5,013
1967	2,939,651	3,717,700	4,138	5,145
1968	3,337,431	3,957,500	4,544	5,388
1969	3,743,487	4,222,200	4,990	5,628
1970	4,172,920	4,523,500	5,408	5,862
1971	4,451,429	4,590,500	5,553	5,726
1972	4,919,386	4,919,400	5,939	5,939
1973	5,591,273	5,512,100	6,566	6,473
1974	6,442,109	5,864,000	7,422	6,756
1975	6,896,764	5,928,800	7,783	6,690
1976	7,197,187	6,078,800	7,960	6,723
1977	8,141,140	6,577,900	8,866	7,163
1978	9,273,659	6,922,300	9,955	7,431
1979	10,536,189	7,214,400	11,052	7,568
1980	11,878,273	7,350,100	12,260	7,586
1981	12,980,402	7,283,700	13,232	7,425
1982	13,501,324	6,823,500	13,541	6,844
1983	14,352,456	6,993,300	14,095	6,868

Source: Hawaii State Department of Planning and Economic Development, Hawaii's Income and Expenditure Accounts: 1958 to 1983 (October 1985), pp. 20-25.

Table 366.-- EXPENDITURES ON GROSS STATE PRODUCT: 1981 TO 1983

[In millions of current dollars]

Item	1981	1982	1983
Gross state product	12,980.4	13,501.3	14,352.5
Personal consumption expenditures	8,031.9	8,011.7	8,162.8
Food, alcoholic beverages and tobacco	2,930.7	3,006.3	3,147.7
Clothing, accessories and jewelry	934.9	850.6	878.4
Personal care	120.1	125.0	132.9
Housing	2,486.4	2,702.5	2,907.4
Household operation	1,014.1	970.8	947.1
Medical care	802.9	874.7	1,001.8
Personal business	856.3	841.4	755.0
Transportation	1,015.6	1,119.6	1,145.3
Recreation	669.1	726.5	765.8
Private education and research	91.3	96.9	110.9
Religious and welfare activities	107.8	119.8	113.2
Foreign travel and other, net	-2,997.2	-3,422.5	-3,742.7
Gross private domestic investment	1,955.9	1,445.6	1,445.2
Fixed investment	1,848.7	1,334.2	1,332.1
Change in business inventories	107.2	111.4	113.1
Government purchases of goods and services 1/	4,085.6	4,564.6	4,813.6
State and local	2,072.1	2,255.4	2,350.2
Compensation of employees	1,032.3	1,139.2	1,196.1
Other current expenditures	701.4	755.5	775.7
Equipment	40.4	47.4	48.6
Construction	298.1	313.2	329.8
Federal	2,013.4	2,309.2	2,463.4
Defense	1,890.4	2,192.6	2,340.0
Non-defense	123.0	116.5	123.4
Net exports	-2,378.2	-1,630.8	-1,483.1
Exports	6,172.4	6,797.3	7,372.0
Commodities	1,289.1	1,274.4	1,439.2
Services	1,668.3	1,807.9	1,918.8
Visitor and crew expenditures	3,215.0	3,715.0	4,014.0
Less: Imports	8,550.6	8,428.1	8,855.1
Commodities	6,241.3	5,808.9	6,243.7
Services	2,091.5	2,326.7	2,340.0
Out-of-state expenditures of Hawaii residents	217.8	292.5	271.3
Discrepancy and omissions	1,285.3	1,110.3	1,414.0

Footnotes and source follow table 369.

Table 367.-- EXPENDITURES ON GROSS STATE PRODUCT (1972 DOLLARS): 1981 TO 1983

[In millions of 1972 dollars]

Item	1981	1982	1983
Gross state product	7,283.7	6,823.5	6,993.3
Personal consumption expenditures	3,983.6	3,695.4	3,644.4
Food, alcoholic beverages and tobacco	1,366.3	1,323.7	1,339.7
Clothing, accessories and jewelry	611.4	531.7	540.9
Personal care	58.7	54.5	56.2
Housing	1,351.3	1,381.8	1,464.7
Household operation	495.5	444.6	429.0
Medical care	353.7	343.8	357.1
Personal business	399.4	347.7	283.2
Transportation	505.7	536.3	553.9
Recreation	360.7	357.0	360.4
Private education and research	43.8	44.5	49.8
Religious and welfare activities	52.5	55.0	50.8
Foreign travel and other, net	-1,615.3	-1,725.0	-1,841.3
Gross private domestic investment	912.9	642.2	638.3
Fixed investment	860.7	591.1	587.5
Change in business inventories 2/	52.2	51.1	50.8
Government purchases of goods and services 1/	1,970.4	2,076.3	2,135.3
State and local	995.5	1,022.2	1,037.2
Compensation of employees	502.3	522.8	537.1
Other current expenditures	341.3	346.7	348.3
Equipment	22.7	25.9	26.5
Construction	129.2	126.7	125.3
Federal	974.8	1,054.2	1,098.1
Defense	915.2	1,000.9	1,042.9
Non-defense	59.7	53.3	55.2
Net exports	-208.6	-100.0	-59.6
Exports	3,133.7	3,260.0	3,449.0
Commodities	606.4	578.5	632.1
Services	811.8	829.7	861.6
Visitor and crew expenditures	1,715.5	1,851.8	1,955.2
Less: Imports	3,342.3	3,360.1	3,508.6
Commodities	2,285.4	2,182.4	2,351.4
Services	956.8	1,050.9	1,043.3
Out-of-state expenditures of Hawaii residents	100.2	126.8	114.0
Discrepancy and omissions	625.4	509.5	634.9

Footnotes and source follow table 369.

Table 368.-- CHARGES AGAINST GROSS STATE PRODUCT: 1981 TO 1983

[In millions of current dollars]

Item	1981	1982	1983
Compensation of employees	8,250.8	8,879.5	9,486.9
Wage and salary disbursements	7,127.2	7,605.6	8,069.8
Supplements to wages and salaries	1,123.6	1,273.8	1,417.2
Employer contributions for social insurance	601.0	661.2	737.1
State and local government programs	102.5	135.1	158.4
Federal government programs	498.5	526.2	578.7
Other labor income	522.6	612.6	680.1
Proprietors' income	369.9	258.9	333.2
Rental income of persons	236.1	236.8	330.1
Corporate profits before tax	745.6	675.3	718.9
Profits tax	165.8	81.9	131.1
State and local tax	48.0	32.6	22.0
Federal tax	117.8	49.3	109.0
Profits after tax	579.8	593.3	587.8
Dividends	261.0	254.3	268.9
Undistributed profits	318.8	339.1	318.9
Net interest	1,378.9	1,501.7	1,504.4
Personal interest income	1,480.3	1,611.4	1,649.1
Less: Government interest, net	-125.3	-131.1	-123.3
State and local (includes state retirement fund)	-134.9	-140.4	-133.9
Federal	9.6	9.3	10.6
Less: Interest paid by consumers to business	226.7	240.8	268.0
Net state income	10,981.4	11,552.2	12,373.5
Business transfer payments	54.0	58.8	64.9
Indirect business tax and non-tax, state and local	1,025.3	1,057.3	1,109.5
Less: Subsidies less current surplus of state and local government enterprises	-15.3	-15.7	-14.4
Indirect business tax and non-tax, Federal	53.2	55.5	64.4
Less: Subsidies less current surplus of Federal government enterprises	-111.3	-133.1	-132.4
Net state product	12,240.5	12,872.4	13,759.2
Capital consumption allowances	739.9	602.4	593.3
Gross state product	12,980.4	13,474.9	14,352.5

Footnotes and source follow table 369.

Table 369.-- TOTAL PERSONAL CONSUMPTION EXPENDITURES: 1981 TO 1983

[In millions of current dollars]

Item	1981	1982	1983
Personal consumption expenditures	8,031.9	8,011.7	8,162.8
Food, alcoholic beverages and tobacco	2,930.7	3,006.3	3,147.7
Food and alcohol, at home	1,417.6	1,431.1	1,452.0
Food and alcohol, away from home	1,444.4	1,500.1	1,591.3
Tobacco	68.7	75.1	104.4
Clothing, accessories and jewelry	934.9	850.6	878.4
Clothing and accessories	593.7	546.9	565.6
Footwear and upkeep	147.8	131.7	135.7
Jewelry	189.4	167.1	172.8
Personal care	120.1	125.0	132.9
Housing	2,486.4	2,702.5	2,907.4
Owner-occupied	682.8	726.1	766.9
Tenant-occupied	689.3	742.5	793.3
Rental value of farm dwellings	17.3	18.1	19.0
Hotels and other group quarters	1,097.0	1,215.8	1,328.3
Household operation	1,014.1	970.8	947.1
Furnishings	508.7	461.6	471.7
Utilities, telephone, and other services	505.4	509.2	475.4
Medical care	802.9	874.7	1,001.8
Drugs and orthopedic appliances	177.3	183.8	199.2
Hospitals and other professional services	555.0	609.3	689.0
Health insurance	70.6	81.6	113.6
Personal business	856.3	841.4	755.0
Transportation	1,015.6	1,119.6	1,145.3
Private (user-operated)	729.9	799.7	826.4
Public	285.7	320.0	318.9
Recreation	669.1	726.5	765.8
Books, radios, TV and other durables	209.8	224.4	237.9
Sport supplies, flowers & other non-durables	158.0	174.0	180.7
Movies, spectator sports and other services	301.3	328.1	347.2
Private education and research	91.3	96.9	110.9
Religious and welfare activities	107.8	119.8	113.2
Foreign travel and other, net	-2,997.2	-3,422.5	-3,742.7
Out-of-State expenditures of residents	217.8	292.5	271.3
Less: Visitor expenditures	3,215.0	3,715.0	4,014.0
Addenda: 3/ Total durables	1,049.9	1,024.2	1,073.7
Total nondurables	4,434.4	4,503.1	4,749.8
Total services	5,544.8	5,906.9	6,109.2

1/ Fiscal year data.

2/ Preliminary estimates.

3/ Refers to purchases in Hawaii and is greater than personal consumption expenditures by amount of foreign travel and other, net.

Source: Hawaii State Department of Planning and Economic Development, Hawaii's Income & Expenditure Accounts: 1958 to 1983 (October 1985).

Table 370.-- INCOME PROJECTIONS: 1980 TO 2005

[Constant 1980 dollars]

Year	Gross State product (millions)	Personal income (millions)	Disposable personal income (millions)	Per capita personal income (dollars)
1980 (revised) .	11,878.3	9,810.5	8,312.1	10,129
1984 (est.)	(NA)	10,869.0	9,440.9	10,464
1990	14,061.8	12,896.3	11,026.3	11,328
1995	16,192.3	14,774.3	12,632.0	12,195
2000	18,264.4	16,611.9	14,203.1	13,103
2005	20,180.8	18,336.8	15,678.0	13,998

NA Not available.

Source: Hawaii State Department of Planning and Economic Development, Population and Economic Projections for the State of Hawaii, 1980-2005 (July 1984), p. 15; U.S. Bureau of Economic Analysis printouts dated August 1985, adjusted to 1980 constant dollars by DPED.

Table 371.-- PERSONAL INCOME, TOTAL AND PER CAPITA, BY COUNTIES: 1983, 1995, AND 2005

County	Total personal income (millions of 1980 dollars)			Per capita personal income (1980 dollars)		
	1983	1995	2005	1983	1995	2005
State total ..	10,356.5	14,774.3	18,336.8	10,314	12,195	13,998
Honolulu	8,474.3	11,398.6	13,943.3	10,608	12,709	14,608
Hawaii	801.0	1,324.7	1,676.3	7,850	9,856	11,357
Kauai	354.0	661.2	859.3	8,244	10,347	11,902
Maui	727.3	1,389.9	1,855.2	9,159	11,951	13,671

Source: U.S. Bureau of Economic Analysis printouts dated April 1985, as adjusted to 1980 constant dollars by DPED; Hawaii State Department of Planning and Economic Development, Population and Economic Projections for the State of Hawaii, 1980-2005 (July 1984).

Table 372.-- TOTAL AND PER CAPITA PERSONAL INCOME AND DISPOSABLE PERSONAL INCOME: 1970 TO 1984

Year	Personal income (millions of dollars)		Per capita personal income (dollars)		Per capita personal income as percent of U.S. average	
	Total	Disposable	Total	Disposable	Total	Disposable
1970 ...	3,566	2,974	4,674	3,899	118	115
1971 ...	3,823	3,235	4,830	4,087	116	113
1972 ...	4,178	3,477	5,107	4,250	113	111
1973 ...	4,650	3,885	5,524	4,615	110	107
1974 ...	5,298	4,452	6,174	5,188	113	111
1975 ...	5,785	5,000	6,612	5,714	113	113
1976 ...	6,223	5,332	6,973	5,975	110	109
1977 ...	6,975	5,979	7,617	6,529	109	109
1978 ...	7,771	6,636	8,367	7,144	108	108
1979 ...	8,685	7,372	9,141	7,759	106	106
1980 ...	9,810	8,312	10,129	8,582	107	107
1981 ...	10,878	9,243	11,090	9,423	105	106
1982 1/	11,604	10,079	11,642	10,113	105	108
1983 1/	12,570	10,790	12,345	10,597	106	106
1984 ...	13,547	11,767	13,042	11,328	102	103

1/ Revised from Data Book 1984, table 380.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, printouts dated August 1985.

Table 373.-- PERSONAL INCOME BY MAJOR SOURCES: 1979 TO 1984

[In millions of dollars]

Item	1979	1980	1981	1982 1/	1983 1/	1984
Labor and proprietors income						
By type:						
Wage and salary disbursements	5,941	6,633	7,127	7,606	8,086	8,574
Other labor income	398	464	523	613	694	768
Proprietors income	316	339	370	302	387	477
Farm	18	61	25	22	31	54
Nonfarm	298	278	345	279	356	423
By industry:						
Farm	196	275	226	262	264	298
Nonfarm	6,459	7,161	7,794	8,257	8,903	9,520
Private	4,348	4,802	5,234	5,393	5,855	6,272
Government and govt. enterprises	2,111	2,359	2,559	2,864	3,048	3,248
Federal, civilian	599	662	715	788	847	908
Federal military	747	818	923	1,057	1,126	1,226
State and local	765	878	921	1,019	1,075	1,113
Derivation of personal income						
Labor and proprietors income	6,655	7,436	8,020	8,520	9,167	9,818
Less: Personal contributions for social insurance	405	453	507	547	588	630
Net labor and proprietors income	6,250	6,984	7,512	7,973	8,579	9,187
Plus: Dividends, interest, and rent	1,401	1,625	1,978	2,108	2,308	2,578
Plus: Transfer payments	1,033	1,202	1,388	1,523	1,683	1,782
Personal income	8,685	9,810	10,878	11,604	12,570	13,547

1/ Revised from Data Book 1984, table 381.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, microfiche dated August 1985.

Table 374.-- TOTAL PERSONAL INCOME, BY COUNTIES: 1959 TO 1983

[Millions of dollars]

Year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui and Kalawao
1959	1,282.5	1,061.4	221.1	100.3	49.5	71.3
1962	1,635.0	1,369.0	266.0	122.0	59.1	84.9
1965	2,050.5	1,718.8	331.7	149.2	73.0	109.5
1966	2,245.0	1,881.4	363.6	164.5	79.9	119.2
1967	2,433.6	2,044.0	389.6	172.4	86.5	130.7
1968	2,725.7	2,291.4	434.4	195.6	94.2	144.5
1969	3,113.9	2,632.6	481.3	217.0	103.6	160.7
1970	3,566.0	3,011.1	554.9	258.0	112.7	184.3
1971	3,823.2	3,213.7	609.5	285.3	122.4	201.8
1972	4,177.8	3,521.6	656.2	309.4	128.5	218.3
1973	4,650.4	3,915.4	735.0	340.8	146.4	247.7
1974	5,297.7	4,362.7	935.0	457.8	180.4	296.8
1975	5,785.4	4,799.7	985.7	463.6	185.9	336.2
1976	6,222.5	5,159.2	1,063.3	486.5	201.4	375.4
1977	6,975.0	5,786.3	1,188.6	531.9	227.3	429.4
1978 1/	7,771.4	6,434.6	1,336.8	579.1	257.2	500.5
1979 1/	8,684.9	7,162.4	1,522.4	651.7	291.7	579.0
1980 1/	9,810.5	8,028.5	1,782.0	789.8	337.8	654.4
1981 1/	10,878.3	8,939.9	1,938.5	846.8	369.6	722.1
1982 1/	11,552.0	9,453.0	2,099.0	897.6	396.4	805.0
1983	12,396.2	10,143.2	2,253.0	958.7	423.7	870.5

1/ Revised from Data Book 1984, table 382.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, printouts dated April 1984 and April 1985.

Table 375.-- PER CAPITA PERSONAL INCOME, BY COUNTIES: 1959 TO 1983

[Dollars]

Year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui and Kalawao
1959	2,103	2,201	1,731	1,695	1,821	1,725
1962	2,504	2,618	2,045	2,044	2,105	2,007
1965	2,938	3,052	2,460	2,419	2,531	2,470
1966	3,221	3,337	2,730	2,712	2,810	2,703
1967	3,437	3,558	2,917	2,853	3,022	2,936
1968	3,791	3,922	3,224	3,201	3,232	3,253
1969	4,191	4,363	3,449	3,440	3,448	3,462
1970	4,674	4,827	3,988	4,059	3,803	4,007
1971 1/	4,830	5,077	3,844	3,882	3,681	3,897
1972	5,107	5,297	4,281	4,425	4,034	4,240
1973	5,524	5,726	4,650	4,678	4,501	4,702
1974	6,174	6,250	5,841	6,196	5,545	5,531
1975	6,612	6,781	5,896	6,005	5,581	5,933
1976	6,973	7,196	6,061	6,045	5,791	6,239
1977	7,617	7,873	6,575	6,439	6,417	6,842
1978 2/	8,367	8,689	7,099	6,761	7,007	7,589
1979 2/	9,141	9,506	7,743	7,317	7,674	8,326
1980 2/	10,129	10,498	8,746	8,510	8,583	9,141
1981 2/	11,090	11,596	9,232	8,838	9,168	9,778
1982 2/	11,590	12,104	9,732	9,114	9,610	10,598
1983	12,115	12,697	10,041	9,396	9,867	10,963

1/ Decline in Neighbor Island per capita incomes may reflect use of incorrect population estimates.

2/ Revised from Data Book 1984, table 383.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, printouts dated April 1984 and April 1985.

Table 376.-- UNREPORTED OR ILLEGAL INCOME: 1981

[In millions of dollars. Data are rough estimates of income from the "underground economy," calculated in part by applying national ratios of unreported to reported income, developed by Carl Simon and Ann Witte, to the official personal income estimate ($10.8 billion in 1981) published for Hawaii. For further details, see source and Data Book 1984, table 284]

Source	Amount
Total	1,160.3
Income hidden to avoid taxes	569.1
Legal wages and salaries	147.4
Legal self-employment earnings	316.8
Other hidden income	104.9
Income earned by avoiding cigarette, alcohol and sales taxes	2.3
Unreported income of illegal alien workers	6.7
Income from illegal transfers	56.0
Income from production and distribution of illegal goods	445.6
Drugs	440.2
Marijuana	361.6
Other drugs	78.4
Smuggling of goods other than drugs	1.2
Pornography	4.2
Income from illegal services	58.0
Takeout from illegal gambling	38.5
Loan sharking	1.1
Prostitution	18.4
Other illegal income (hijacking, forgery, protection and extortion, pirating of records and taxes)	22.6

Source: Linda Kephart, "Business booms 'off-the-books,'" Hawaii Business, March 1984, p. 69.

Table 377.-- MEDIAN INCOME OF HOUSEHOLDS, FAMILIES, UNRELATED INDIVIDUALS, AND PERSONS DURING PRECEDING YEAR: 1950 TO 1983

[Dollars]

Census or survey year	Households	Families	Unrelated individuals	Persons with income 1/	
				Male	Female
1950	(NA)	3,568	1,583	2,340	1,247
1960	(NA)	6,366	1,998	3,753	1,796
1970	10,675	11,664	2,981	6,528	3,222
1976 2/	15,991	17,770	6,180	9,489	4,082
1980	20,473	22,750	7,097	11,505	6,581
1981 2/	21,684	(NA)	(NA)	(NA)	(NA)
1982 2/	22,435	(NA)	(NA)	(NA)	(NA)
1983 2/	23,582	(NA)	(NA)	(NA)	(NA)

NA Not available.

1/ 14 years old and over through 1976, and 15 years old and over in 1980.

2/ Excludes persons in military group quarters.

Source: U.S. Bureau of the Census, Census of Population: 1960, General Social and Economic Characteristics, Hawaii, Final Report PC(1)-13C (1962), tables 66 and 67 (for 1950 data); 1970 Census of Population, General and Economic Characteristics, Hawaii, PC(1)-C13 (December 1971), table 47 (for 1960 data); 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), table 61 (for 1970 and 1980 data); "Household Money Income in 1975, by Housing Tenure and Residence, for the United States, Regions, Divisions, and States (Spring 1976 Survey of Income and Education)," Current Population Reports, Consumer Income, Series P-60, No. 108 (November 1977), p. 145; "Money Income and Poverty Status in 1975 of Families and Persons in the United States and the West Region, by Divisions and States (Spring 1976 Survey of Income and Education)," Current Population Reports, Consumer Income, Series P-60, No. 113 (July 1978), pp. 175-177; Gordon Green, "Estimating Income for States Using Data from the March Current Population Survey" (paper presented to the American Statistical Association annual meeting, Las Vegas, August 1985), appendix table 2 (for 1981-1983 data).

Table 378.-- INCOME OF HOUSEHOLDS, FAMILIES, AND PERSONS IN 1979: 1980

[Income received in 1979 by households, families, and persons surveyed in 1980]

Income	The State	Oahu	Other islands
Households	294,934	230,931	64,003
Less than $5,000	24,433	17,631	6,802
$5,000 to $7,499	18,775	13,771	5,004
$7,500 to $9,999	21,209	16,663	4,546
$10,000 to $14,999	41,604	32,320	9,284
$15,000 to $19,999	37,836	28,833	9,003
$20,000 to $24,999	34,842	26,768	8,074
$25,000 to $34,999	52,585	41,728	10,857
$35,000 to $49,999	39,955	33,443	6,512
$50,000 or more	23,695	19,774	3,921
Median	$20,473	$21,077	$18,457
Mean	$24,519	$25,180	$22,132
Families	227,974	178,516	49,458
Less than $5,000	11,533	8,603	2,930
$5,000 to $7,499	12,195	8,920	3,275
$7,500 to $9,999	15,068	11,817	3,251
$10,000 to $14,999	29,796	22,815	6,981
$15,000 to $19,999	28,957	21,572	7,385
$20,000 to $24,999	28,013	21,234	6,779
$25,000 to $34,999	45,089	35,482	9,607
$35,000 to $49,999	36,236	30,450	5,786
$50,000 or more	21,087	17,623	3,464
Median	$22,750	$23,554	$20,600
Mean	$26,629	$27,318	$24,139
Unrelated individuals 15 years and over	136,692	112,303	24,389
Less than $2,000	17,492	13,797	3,695
$2,000 to $2,999	7,698	5,713	1,985
$3,000 to $4,999	16,598	12,795	3,803
$5,000 to $7,999	34,234	29,848	4,386
$8,000 to $9,999	13,112	11,007	2,105
$10,000 to $14,999	21,340	17,209	4,131
$15,000 to $24,999	18,037	14,972	3,065
$25,000 to $49,999	6,841	5,866	975
$50,000 or more	1,340	1,096	244
Median	$7,097	$7,167	$6,735
Mean	$9,947	$10,061	$9,423

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 71.

Table 379.-- INCOME AND POVERTY STATUS IN PREVIOUS YEAR: 1970 AND 1980

Subject	1970	1980	Percent 1970	Percent 1980
INCOME IN PREVIOUS YEAR				
Households	204,415	294,934	...	...
Median income (current dollars)	$10,675	$20,473	...	...
Median income (1979 dollars)	$21,137	$20,473	...	...
Families	170,729	227,974	...	...
Median income (current dollars)	$11,664	$22,750	...	...
Median income (1979 dollars)	$23,095	$22,750	...	...
Unrelated individuals 15 years and over	83,093	136,692	...	...
Median income (current dollars)	$2,981	$7,097	...	...
Median income (1979 dollars)	$5,902	$7,097	...	...
Male, 15 years and over 1/	289,165	378,942	100.0	100.0
Without income	29,578	29,106	10.2	7.7
With income	259,587	349,836	89.8	92.3
Median income (current dollars)	$6,528	$11,505	...	...
Median income (1979 dollars)	$12,925	$11,505	...	...
Female, 15 years and over 1/	264,590	360,707	100.0	100.0
Without income	94,729	78,115	35.8	21.7
With income	169,861	282,592	64.2	78.3
Median income (current dollars)	$3,222	$6,581	...	...
Median income (1979 dollars)	$6,380	$6,681	...	...
INCOME IN PREVIOUS YEAR BELOW POVERTY LEVEL 2/				
Persons	68,364	91,618	9.3	9.9
65 years and over	8,457	7,654	19.9	10.5
In families	51,530	66,843	7.6	8.2
Householder	13,063	17,700	7.7	7.8
Female householder, no husband present	5,180	7,985	32.4	28.0
Related child under 18 years	27,895	35,103	10.3	13.0
Related child under 6 years	10,129	14,725	11.9	16.3
Other relatives	10,572	14,040	4.5	4.4
Unrelated individuals	16,834	24,775	30.3	23.0
65 years and over	4,561	4,927	50.1	31.7

1/ 14 years and over in 1970.

2/ Percent columns show percent below poverty level for specified groups. Data are based on U.S. poverty thresholds. Thresholds in Hawaii are about 15 percent higher; these statistics accordingly understate the number of persons in Hawaii below the poverty level.

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-13C (July 1983), table 61.

Table 380.-- INCOME AND POVERTY STATUS IN 1979, BY COUNTIES: 1980

[Income and poverty status in 1979 of households, families and persons surveyed in 1980]

County	Median income in 1979 (dollars)		Per capita income in 1979 (dollars)	Income in 1979 below poverty level 1/	
	Households	Families		Percent of persons for whom poverty status is determined	Percent of families
The State ..	20,473	22,750	7,740	9.9	7.8
Hawaii	16,975	19,132	6,554	13.2	10.3
Honolulu	21,077	23,554	7,912	9.5	7.5
Kalawao	5,750	11,667	6,838	31.9	13.3
Kauai	19,066	20,882	7,022	8.9	6.9
Maui	20,237	22,579	7,818	9.6	7.6

1/ Based on Mainland poverty thresholds. Hawaii thresholds are approximately 15 percent higher than those in effect on the Mainland; these data accordingly understate the percent of persons and families below poverty level in Hawaii.

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 57.

Table 381.-- ANNUAL MONEY INCOME OF FAMILIES AND UNRELATED INDIVIDUALS: 1981 TO 1983

[In dollars. Excludes persons in institutions or military barracks, in Kalawao, or on Niihau. Data refer to money income during previous 12 months of families and unrelated individuals surveyed during calendar year]

Year surveyed	Families 1/			Unrelated individuals
	Total	Military	Civilian	
INCOME DISTRIBUTION: 1983				
All levels	258,316	31,613	226,686	77,963
Under $5,000	4,459	170	4,289	9,542
$5,000 to $9,999	20,718	2,296	18,422	15,368
$10,000 to $14,999 ...	30,737	9,279	21,458	15,571
$15,000 to $19,999 ...	28,390	5,122	23,267	8,022
$20,000 to $24,999 ...	26,730	3,515	23,215	5,156
$25,000 to $29,999 ...	23,456	3,134	20,322	3,433
$30,000 to $34,999 ...	21,959	1,880	20,079	2,258
$35,000 to $39,999 ...	18,285	1,562	16,723	755
$40,000 and over	45,172	2,663	42,509	2,871
Not reported	38,411	1,992	36,401	14,986
MEDIAN INCOME (DOLLARS)				
1981	22,064	15,626	23,353	10,811
1982	23,864	18,049	24,769	12,084
1983	24,798	17,992	26,105	12,112

1/ By military status of family head. Families not reporting military status, not shown separately, are included in the total.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulations.

Table 382.-- POVERTY STATUS IN 1979 OF FAMILIES AND PERSONS: 1980

[Based on nationwide poverty thresholds. Hawaii thresholds are approximately 15 percent higher than those in effect on the Mainland; these data accordingly understate the numbers of persons and families below the poverty level in Hawaii. Data refer to the poverty status in 1979 of families and persons surveyed in 1980]

Subject	Number
ALL INCOME LEVELS IN 1979	
Families	227,974
Unrelated individuals	107,787
Persons	927,032
INCOME IN 1979 BELOW POVERTY LEVEL	
Families	17,700
Percent below poverty level	7.8
Unrelated individuals	24,775
Percent below poverty level	23.0
Persons	91,618
Percent below poverty level	9.9
INCOME IN 1979 BELOW 125 PERCENT OF POVERTY LEVEL	
Families	26,815
Percent below poverty level	11.8
Unrelated individuals	30,725
Percent below poverty level	28.5
Persons	133,214
Percent below poverty level	14.4
INCOME IN 1979 BELOW SPECIFIED POVERTY LEVEL	
Percent of persons:	
Below 75 percent of poverty level	6.1
Below 150 percent of poverty level	19.0
Below 200 percent of poverty level	29.0

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 72.

Table 383.-- POVERTY INCOME GUIDELINES: 1980 AND 1985

[In dollars. These family income levels are poverty thresholds established by the U.S. Department of Health and Human Services to determine eligibility for certain Federal programs for the poor. In earlier years, these guidelines were issued by the Community Services Administration]

Size of family unit	Effective April 21, 1980 1/	Effective March 8, 1985 2/
1	4,370	6,040
2	5,770	8,110
3	7,170	10,180
4	8,570	3/ 12,250
5	9,970	14,320
6	11,370	16,390
7	12,770	18,460
8	14,170	4/ 20,530

1/ Non-farm families only; guidelines for farm families were lower.

2/ All families.

3/ Corresponding levels for four-person families elsewhere in the United States were $10,650 on the Mainland and $13,310 in Alaska.

4/ For larger families, add $2,070 for each additional member.

Source: Community Services Administration, "General Characteristics of Community Action Programs; Income Poverty Guidelines (Revised)," Federal Register, Vol. 45, No. 78 (April 21, 1980), pp. 26712-26713; Department of Health and Human Services, "Annual Revision of the Poverty Income Guidelines," Federal Register, Vol. 50, No. 46 (March 8, 1985), pp. 9517-9518, and correction in Vol. 50, No. 50, March 14, 1985, p. 10319.

Table 384.-- ANNUAL INCOME AND EXPENDITURE CHARACTERISTICS OF FAMILIES AND SINGLE CONSUMERS, FOR OAHU: 1972-1973

[Data are based on a sample of 228 families and single consumers, and are subject to relatively large standard errors. For detailed breakdowns, see the Data Book 1981, table 286]

Item	Average amount (dollars)
Expenditures	
Current consumption expenses, total	9,506.14
Food at home or away from home	1,916.09
Alcoholic beverages	129.93
Tobacco products and smoking supplies	102.22
Housing	3,182.03
Clothing	590.48
Transportation	1,530.72
Health care	513.92
Personal care	157.96
Recreation	834.15
Reading	70.37
Education	142.50
Miscellaneous	272.33
Personal insurance, retirement, and pensions	1,325.37
Gifts and contributions	451.82
Income and personal taxes	
Money income before taxes	15,665.31
Personal taxes	-2,610.60
Other financial information	
Other money receipts	561.06
Net change in assets and liabilities	+1,109.14
Market value of financial assets	8,199.06
Estimated market value of owned home	23,725.95

Source: U.S. Department of Labor, Bureau of Labor Statistics, Consumer Expenditure Survey: Integrated Diary and Interview Survey Data, 1972-73. Total Expenditures and Income for the United States and Selected Areas, Bulletin 1992 (1978), table 15, pp. 120-125.

Table 385.-- TOP WEALTHHOLDERS: 1962 TO 1982

[Top wealthholders are defined as persons with a gross estate in excess of specified amounts, rising from $60,000 in 1962 to $300,000 in 1982. All figures are estimates based on estate tax return samples]

Group and year	Number of top wealth-holders	Millions of dollars		
		Total assets	Debts and mort-gages	Net worth
Gross estate over $60,000: ..				
1962	11,323	1,908	231	1,677
1969	36,470	6,327	1,090	5,236
1972	53,700	7,866	1,369	6,497
Gross estate over $120,000: .				
1976	39,000	7,436	1,546	5,890
Gross estate over $300,000: .				
1982	14,200	8,815	4,471	4,344
Gross estate over $500,000: .				
1982	5,700	5,891	4,005	1,887

Source: U.S. Internal Revenue Service, Statistics of Income - 1962, Personal Wealth (1967), pp. 55-56; Statistics of Income - 1969, Personal Wealth (1973), pp. 57-58; Statistics of Income - 1972, Personal Wealth Estimated from Estate Tax Returns (1976), table 33; and Statistics of Income Bulletin, Summer 1983, pp. 1-26, and Winter 1984-85, pp. 1-17.

Table 386.-- CHARACTERISTICS OF TOP WEALTHHOLDERS: 1982

[Top wealthholders are defined as persons with gross assets of $300,000 or more. All figures in this table are estimates based on estate tax return samples]

Subject	Number of persons	Amount (millions of dollars)
GROSS ASSETS OF $300,000 OR MORE		
Total assets, all persons in group	14,200	8,815
Debts and mortages	13,100	4,471
Net worth	14,200	4,344
Men	11,200	2,421
Women	2,900	1,923
GROSS ASSETS OF $500,000 OR MORE		
Total assets, all persons in group	5,700	5,891
Debts and mortgages	5,500	4,005
Net worth	5,700	1,887
Selected assets:		
Cash	5,700	313
Corporate stock	2,800	328
Bonds	1,100	138
Real estate	5,200	3,363
Noncorporate business assets	1,700	278
NET WORTH OF $1,000,000 OR MORE		
Net worth, all persons in group (millionaires)	800	1,663

Source: U.S. Internal Revenue Service, "Preliminary Estimates of Personal Wealth, 1982: Composition of Assets," SOI Bulletin, Winter 1984-85, pp. 1-17.

PRICES

This section presents indexes of consumer prices for Honolulu, average prices for selected foods, and a comparison of Honolulu family budgets with those in other metropolitan areas. Other statistics on prices are reported in Sections 16, 17, 18, 19, 21, and 23.

In June 1985, the Honolulu all-items consumer price index for all urban consumers stood at 293.5, with the 1967 level equal to 100. The index had increased 3.1 percent in the preceding 12 months, 29.0 percent since 1980, and 90.2 percent since 1975. Prices have risen most rapidly since 1967 for medical care (294.5 percent), fuel and other utilities (248.5 percent), and food away from home (up 241.8 percent), and least rapidly for apparel and upkeep (101.4 percent).

An "intermediate" budget for a four-person family living on Oahu was estimated at $31,893 as of the Autumn of 1981. This family budget was 26 percent higher than the corresponding urban United States average, and was first among the 25 American metropolitan areas surveyed. The "lower" budget was 33 percent above the national figure; the "higher" budget, 32 percent. Oahu-Mainland differentials in the intermediate budget were greatest for rents and personal income taxes and least for food away from home and automobile transportation. An "intermediate" budget for a retired couple in Honolulu came to $12,157 in the Autumn of 1981, 19 percent above the U.S. urban average.

The Honolulu consumer price index has been compiled by the United States Bureau of Labor Statistics since December 1963. This index measures the average change in prices of goods and services purchased by urban families and single persons living alone. Prices are expressed as a percent of the average levels reported in 1967, the base date. Current data for Honolulu and other cities are published in the Monthly Labor Review and CPI Detailed Report, issued monthly by BLS.

Important changes were made in the consumer price index at the beginning of 1978. The existing index, covering urban wage earner and clerical families and single persons living alone, had been based on spending patterns observed in a 1961 survey and had been issued at three-month intervals. This index was discontinued after June 1978. Beginning in February 1978, two new indexes were published, both based on the findings of a 1972-1973 survey and both issued at two-month intervals. The first of these new indexes covered the same population as the older index, that is, urban wage earner and clerical families and individuals; the second covered all urban consumers. The new indexes were linked to the existing index for December 1977 and, like the latter, expressed as a percent of the 1967 annual average. The index for all urban consumers was further modified in February 1983, when the basis for measuring homeowners' costs was substantially altered.

Comparisons of family budgets between Honolulu and various Mainland communities were published annually by the U.S. Bureau of Labor Statistics from 1966 to 1981, and then discontinued. Cost of living adjustments for Federal employees in Hawaii are based on comparisons with Washington, D.C., prices, compiled by the U.S. Office of Personnel Management at annual intervals through 1983.

In addition to these data, the Bureau of Labor Statistics formerly published monthly and annual data on average Honolulu prices for a variety of foods, and occasional data on a number of non-food items. The city food price series were suspended after June 1978 and since that time only unofficial estimates have been available. Monthly data for Honolulu electric and gas utility rates and gasoline prices are still compiled by BLS and are published in a regular release, Consumer Prices: Energy and Food.

No composite wholesale or producer price index, comparable to the all-items consumer price index, is available for Hawaii. Average wholesale prices of agricultural products are reported in Statistics of Hawaiian Agriculture, issued by the Hawaii Agricultural Reporting Service, and in various other publications of the State Department of Agriculture. Wholesale price statistics of other commodities are usually un available.

Data on prices and living costs for the nation as a whole and other areas are summarized in Statistical Abstract of the United States: 1985, Section 16. Long-term trends for Hawaii are traced in Historical Statistics of Hawaii, Section 5.

Table 387.-- CONSUMER PRICE INDEX (ALL ITEMS COMBINED), BY TYPE OF CONSUMER, FOR HONOLULU: 1963 TO 1985

[1967 average = 100]

Type of consumer and year	Annual average	February	April	June	August	October	December
All urban consumers: 1/							
1978	184.1	178.0	181.4	183.9	185.6	188.8	191.3
1979	204.6	196.2	200.7	204.4	207.2	210.5	214.8
1980	228.5	220.9	227.4	227.5	230.1	234.6	236.1
1981	252.4	243.3	250.0	252.8	256.6	259.3	258.3
1982	267.6	262.0	263.3	269.0	269.4	275.2	269.9
1983	273.5	270.4	272.8	271.4	273.5	276.4	278.4
1984	284.8	280.7	283.2	284.7	286.0	287.4	289.8
1985		292.6	292.7	293.5	294.2	295.6	
Urban wage earners and clerical workers:							
1963	...	...	...	...	...	...	92.8
1964	92.9	...	...	92.4	...	...	93.7
1965	94.6	...	...	94.1	...	...	96.2
1966	97.3	...	...	96.8	...	...	98.8
1967	100.0	...	...	99.7	...	...	101.8
1968	103.8	...	...	103.4	...	...	105.7
1969	108.5	...	...	108.2	...	...	111.0
1970	114.2	...	...	114.4	...	...	115.7
1971	118.9	...	...	118.5	...	...	121.1
1972	122.8	...	...	122.2	...	...	124.4
1973	128.3	...	...	127.5	...	...	132.8
1974	141.9	...	...	141.2	...	...	148.5
1975	155.0	...	...	154.3	...	...	159.8
1976	162.8	...	...	162.3	...	...	165.5
1977	171.0	...	...	170.5	...	...	174.9
1978	184.1	177.5	181.3	184.1	186.0	188.7	191.2
1979	204.5	196.0	200.0	203.6	207.2	211.1	215.5
1980	228.7	221.3	228.4	228.0	229.5	233.5	237.0
1981	252.8	243.5	250.2	253.8	256.6	259.1	259.3
1982	268.1	263.0	264.2	268.9	269.5	274.7	271.0
1983	278.8	274.8	276.9	273.4	278.2	285.9	288.2
1984	291.3	284.3	289.0	290.9	293.6	294.5	297.6
1985		300.3	300.1	300.4	301.3	302.7	

1/ Not available before 1978.

Source: U.S. Bureau of Labor Statistics, San Francisco, Consumer Price Index - Pacific Cities and U.S. Average (monthly), as corrected.

Table 388.-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS, BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1980 TO 1984

[Unless otherwise specified, 1967=100]

Group	1980	1981	1982	1983	1984
All items	228.5	252.4	267.6	273.5	284.8
Food and beverages	250.6	275.4	288.3	296.0	308.2
Food	259.9	285.8	298.8	306.7	319.7
Food at home	264.2	291.7	300.2	305.2	318.6
Cereals and bakery products	241.2	276.6	278.9	289.3	300.8
Meats, poultry, fish, and eggs	263.6	278.8	283.4	286.6	292.2
Meats, poultry, and fish	268.9	283.8	288.2	291.8	295.8
Dairy products	248.5	279.2	285.5	287.6	291.6
Fruits and vegetables	273.0	311.5	329.3	324.9	359.3
Other foods at home	294.8	331.1	344.5	358.4	376.6
Food away from home	254.4	277.8	299.7	314.1	327.9
Alcoholic beverages	171.4	186.8	200.0	206.0	210.5
Housing	216.6	240.3	255.0	257.5	268.2
Shelter	220.1	238.4	253.7	257.2	271.2
Renters' costs 1/	(NA)	(NA)	(NA)	102.7	109.4
Rent, residential	206.1	224.8	240.7	253.0	269.0
Other renters' costs	250.6	288.2	338.5	382.9	414.4
Homeowners' costs 1/	(NA)	(NA)	(NA)	100.6	105.9
Owners' equivalent rent 1/	(NA)	(NA)	(NA)	100.6	105.8
Fuel and other utilities	243.1	339.1	352.3	339.9	347.0
Fuels	309.2	480.9	500.4	446.0	457.3
Fuel oil, coal, and bottled gas 2/	162.8	210.7	239.1	236.9	(NA)
Gas (piped) and electricity	308.7	481.4	500.4	445.3	456.5
Household furnishings and operation	186.3	197.7	210.4	216.7	219.0
Apparel and upkeep	183.9	193.4	201.5	207.7	205.1
Apparel commodities	180.2	188.1	195.5	200.9	197.1
Men's and boys' apparel	177.8	190.0	197.2	201.1	202.2
Women's and girls' apparel	169.2	172.8	183.7	186.9	185.8
Footwear	182.0	188.4	187.4	190.9	194.5
Transportation	223.6	247.1	255.6	253.7	265.7
Private transportation	228.1	252.5	260.1	258.7	272.3
Public transportation	204.0	222.6	236.7	231.9	234.2
Medical care	258.6	289.4	324.3	357.6	379.7
Entertainment	201.5	224.8	246.7	257.6	268.9
Other goods and services	219.6	244.2	275.6	303.7	319.1
Personal care	228.5	246.5	276.4	284.9	283.5

Continued on next page.

Table 388.-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS, BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1980 TO 1984 -- Con.

Group	1980	1981	1982	1983	1984
All items	228.5	252.4	267.6	273.5	284.8
Commodities	225.0	243.7	257.0	263.8	272.2
Food and beverages	250.6	275.4	288.3	296.0	308.2
Commodities less food and beverages	203.6	218.8	231.8	237.8	243.6
Nondurables less food and beverages	225.2	249.5	263.0	270.8	275.1
Durables	179.9	188.7	200.7	205.7	213.7
Services	235.7	267.0	284.9	289.5	304.2
Medical care services	268.8	301.1	338.7	375.1	398.2
Special indexes:					
All items less shelter	228.0	254.6	269.4	276.4	286.5
All items less medical care	226.2	249.7	263.9	268.5	279.2
All items less energy 3/	128.3	139.5	148.7	153.2	159.9
Energy 2/	156.8	205.5	207.8	192.3	196.5
Commodities less food	201.6	216.7	229.6	235.6	241.3
Nondurables less food	218.6	242.0	255.3	262.9	267.2
Nondurables	240.8	265.6	278.9	286.7	295.3
Services less rent of shelter	(NA)	(NA)	(NA)	101.3	105.8
Services less medical care	228.1	258.8	274.6	276.3	290.0

NA Not available.
1/ December 1982=100.
2/ June 1978=100.
3/ December 1977=100.

Source: U.S. Bureau of Labor Statistics, CPI Detailed Report, January 1981, 1982, 1983, 1984, and 1985.

Table 389.-- CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS, BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1980 TO 1984

[Unless otherwise specified, 1967=100]

Group	1980	1981	1982	1983	1984
All items	228.7	252.8	268.1	278.8	291.3
Food and beverages	252.1	278.6	292.4	300.3	313.2
Food	262.0	289.8	303.7	311.8	325.5
Food at home	266.8	295.9	306.6	312.4	326.6
Cereals and bakery products	238.1	274.5	273.7	281.7	292.5
Meats, poultry, fish, and eggs	268.5	286.5	298.5	302.7	311.6
Meats, poultry, and fish	274.1	292.2	304.4	309.1	316.7
Dairy products	248.2	279.3	285.6	287.8	291.6
Fruits and vegetables	277.1	317.0	330.2	327.5	360.8
Other foods at home	297.8	335.2	352.1	366.5	385.3
Food away from home	253.7	277.3	298.9	313.5	327.9
Alcoholic beverages	166.6	181.8	195.3	201.7	206.4
Housing	213.3	236.3	251.9	265.8	278.5
Shelter	213.6	230.2	246.8	266.1	282.9
Rent, residential	206.1	224.8	240.7	253.0	269.0
Other rental costs	253.6	292.4	343.5	391.4	425.4
Homeownership	213.5	228.8	244.8	265.4	281.9
Property taxes 1/	(NA)	106.3	114.8	116.1	118.8
Fuel and other utilities	243.4	338.9	352.2	340.1	347.0
Fuels	309.3	479.2	499.0	445.5	456.4
Fuel oil, coal, and bottled gas 2/	164.5	213.3	241.5	239.3	(NA)
Gas (piped) and electricity	308.9	479.4	498.8	444.9	455.7
Household furnishings and operation	195.9	206.6	219.6	226.8	228.1
Apparel and upkeep	193.5	201.8	208.1	214.6	212.3
Apparel commodities	190.5	196.8	201.9	207.5	203.9
Men's and boys' apparel	179.4	188.7	198.0	201.4	203.1
Women's and girls' apparel	149.5	153.0	159.4	162.1	162.0
Footwear	165.1	171.4	172.8	175.8	179.0
Transportation	223.6	248.4	255.8	253.3	265.3
Private transportation	229.1	255.0	261.7	259.4	272.8
Public transportation	204.7	223.3	237.5	232.7	234.9
Medical care	261.3	296.0	332.5	365.2	386.3
Entertainment	215.7	236.0	257.7	270.0	282.5
Other goods and services	214.4	238.8	269.7	299.4	313.8
Personal care	214.8	234.8	261.3	269.5	268.5

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Table 389.-- CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS, BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1980 TO 1984 -- Con.

Group	1980	1981	1982	1983	1984
All items	228.7	252.8	268.1	278.8	291.3
Commodities	227.1	246.5	259.5	267.0	276.4
Food and beverages	252.1	278.6	292.4	300.3	313.2
Commodities less food and beverages	206.1	221.3	233.3	240.3	247.6
Nondurables less food and beverages	232.5	257.4	269.8	277.3	282.3
Durables	178.8	186.7	197.9	204.3	212.8
Services	232.4	264.0	283.0	299.0	316.3
Medical care services	273.3	310.4	350.0	385.9	407.8
Special indexes:					
All items less shelter	232.2	259.3	273.7	280.5	290.8
All items less medical care	226.2	249.8	264.0	273.8	285.8
All items less energy 3/	127.9	139.1	148.5	156.0	163.4
Energy 2/	158.4	204.1	205.5	191.1	195.0
Commodities less food	203.7	218.8	230.8	237.8	245.0
Nondurables less food	224.7	248.6	260.9	268.3	273.2
Nondurables	244.9	270.9	284.1	291.9	301.2
Services less rent	239.0	273.6	293.3	310.2	327.8
Services less medical care	224.3	254.8	271.5	285.3	301.8

NA Not available.

1/ January 1981=100.

2/ June 1978=100.

3/ December 1977=100.

Source: U.S. Bureau of Labor Statistics, CPI Detailed Report, January 1981, 1982, 1983, 1984, and 1985.

Table 390.-- RELATIVE IMPORTANCE OF COMPONENTS IN THE CONSUMER PRICE INDEX FOR HONOLULU: DECEMBER 1984

[Percent of all items]

Group	CPI-U 1/	CPI-W 2/
EXPENDITURE CATEGORY		
All items	100.000	100.000
Food and beverages	21.968	24.792
Food	20.804	23.523
Food at home	14.166	16.780
Cereals and bakery products	1.623	2.025
Meats, poultry, fish, and eggs	5.016	6.334
Meats, poultry, and fish	4.765	6.059
Dairy products	1.397	1.535
Fruits and vegetables	2.587	2.648
Other foods at home	3.542	4.236
Food away from home	6.638	6.743
Alcoholic beverages	1.164	1.269
Housing	40.607	36.711
Shelter	27.640	24.091
Renters' costs	8.941	8.035
Rent, residential	7.992	7.188
Other renters' costs	.949	.848
Homeowners' costs	17.895	15.393
Owners' equivalent rent	17.642	15.187
Fuel and other utilities	5.675	5.494
Fuels	4.010	3.901
Fuel oil, coal, and bottled gas	.065	.042
Fuel oil	.003	.000
Other fuels	.061	.040
Gas (piped) and electricity	3.945	3.859
Electricity	3.521	3.385
Utility (piped) gas	.424	.474
Household furnishings and operations	7.292	7.126
Apparel and upkeep	4.800	4.812
Apparel commodities	4.316	4.292
Men's and boys'	1.411	1.311
Women's and girls'	1.404	1.243
Footwear	.615	.562

Continued on next page.

Table 390.-- RELATIVE IMPORTANCE OF COMPONENTS IN THE CONSUMER PRICE INDEX FOR HONOLULU: DECEMBER 1984 -- Con.

Group	CPI-U 1/	CPI-W 2/
EXPENDITURE CATEGORY -- Con.		
Transportation	16.340	18.261
Private	14.375	16.529
Motor fuel	4.591	5.445
Public	1.965	1.732
Medical care	6.235	6.073
Entertainment	4.843	4.429
Other goods and services	5.207	4.920
Personal care	1.718	1.702
COMMODITY AND SERVICE GROUP		
All items	100.000	100.000
Commodities	48.380	52.819
Food and beverages	21.968	24.792
Commodities less food and beverages	26.413	28.027
Nondurables less food and beverages	16.976	18.158
Durables	9.437	9.869
Services	51.620	47.181
Medical care services	5.367	5.198
Special indexes:		
All items less shelter	72.360	75.909
All items less medical care	93.765	93.927
All items less energy	91.399	90.654
Energy	8.601	9.346
Commodities less food	27.576	29.296
Nondurables less food	18.140	19.427
Nondurables	38.943	42.950
Services less rent of shelter	25.075	23.980
Services less medical care	46.253	41.982

1/ Consumer price index for all urban consumers.

2/ Consumer price index for urban wage earners and clerical workers.

Source: U.S. Bureau of Labor Statistics, printout.

Table 391.-- RETAIL FOOD PRICES, BY ITEM, FOR HONOLULU AND MAINLAND CITIES: MAY 31, 1984 AND JUNE 20, 1985

[See headnote to following table]

Item	Honolulu price (dollars)		Honolulu as percent of Mainland average 1/	
	1984	1985	1984	1985
Milk, homogenized, 1/2 gal.	1.49*	1.59	137	142
Eggs, Grade A, large, 1 doz.	1.49*	0.99*	186	129
Cheese, sharp, 10 oz.	2.83	2.97	133	134
Margarine, 1 lb.	0.75	0.74	125	117
Bread, white, 24 oz. loaf	0.79	1.39	232	232
Flour, 5 lb.	0.89*	1.41	91	137
Cereal, Special K, 12 oz.	2.41	2.69	145	145
Sugar, 5 lb.	2.18	1.87	131	113
Instant coffee, 2/	5.25	4.39*	117	114
Beans, dry, 1 lb	0.87	0.77	178	171
Rice, 2 lb.	2.35	1.79*	127	98
Mayonnaise, 1 qt.	1.69*	2.09	100	115
Peanut butter, 18 oz. jar	1.93*	2.15*	127	133
Tuna, 6 1/2 oz. can	0.69*	1.09*	88	154
Evaporated milk, 3/	0.64	0.69	119	125
Cling peach halves, 29 oz. can	1.29	1.39	126	121
Pineapple, 20 oz. can	0.95	0.95	106	106
Ice cream, 1/2 gal.	1.99*	1.79*	131	123
Orange juice concentrate, 6 oz.	0.69	0.81	117	133
Broccoli spears, 10 oz. pkg.	1.05	1.15	157	169
Rump roast, boneless, 1 lb.	2.79*	2.59	126	123
Sirloin steak, bone in, 1 lb.	3.19	4.39	107	146
Ground beef, 1 lb.	1.39	1.49	109	132
Pork loin chops, 1 lb.	2.49	2.89	113	144
Ham, smoked, 1 lb.	1.49*	1.59	122	141
Bacon, 1 lb.	2.39*	1.79*	119	85
Wieners, all meat, 1 lb.	1.29*	1.99	77	121
Chicken, whole, 1 lb.	0.79	0.79*	108	125
Potatoes, 5 lb.	2.95	1.99	212	149
Carrots, 1 lb.	0.69	0.65	209	191
Cabbage, 1 lb.	0.29*	0.39	138	163
Lettuce, 1 head 4/	0.99	0.89	190	162
Bananas, 1 lb.	0.69*	0.50*	186	135
Tomatoes, 1 lb.	0.69	0.49*	90	88
Oranges, 5 lb.	2.45	3.95	100	173
Tax on above items 5/	2.27	2.36	127	111

Footnotes and source on next page.

Table 391.-- RETAIL FOOD PRICES, BY ITEM, FOR HONOLULU AND MAINLAND CITIES: MAY 31, 1984 AND JUNE 20, 1985-- Con.

* Special sale price.

1/ Mainland averages based on data for 21 Mainland cities surveyed. These averages exclude Anchorage and Honolulu, also surveyed.

2/ 10 oz. jar in 1984; 8 oz. jar in 1985.

3/ 13 fluid oz. can in 1984; 12 or 13 fluid oz. can in 1985.

4/ Lettuce not sold by head in Honolulu; price adjusted from 79 cents lb. in 1984, and 49 cents lb. in 1985.

5/ Mainland average only of cities with food taxes.

Source: Honolulu Advertiser, June 19, 1984, p. D-1, and July 22, 1985, p. D-1.

Table 392.-- RETAIL FOOD PRICES, FOR HONOLULU AND MAINLAND CITIES: 1979 TO 1985

[June data for a "market basket" of 35 common food items surveyed in Honolulu and other U.S. cities. Data include sales taxes. This survey, organized by the Tampa Tribune, has included Honolulu since 1979]

Date of survey	Honolulu			All cities	
	Amount (dollars)	Rank	Percent of U.S. average 1/	Number surveyed	Average amount 1/ (dollars)
1979: June 14	46.91	2	120.3	22	38.98
1980: June 19	49.60	2	121.0	22	40.98
1981: June 11	57.18	1	131.1	21	43.63
1982: June 3	56.72	1	126.2	21	44.93
1983: June 2	56.33	1	128.0	21	44.01
1984: May 31	59.10	1	127.0	21	46.52
1985: June 20	61.45	1	134.9	21	45.54

1/ Average excludes Honolulu and Anchorage, both included in number surveyed.

Source: Honolulu Advertiser, July 4, 1979, pp. A-1 and A-6; July 9, 1980, pp. A-1 and A-4; July 3, 1981, pp. A-1 and A-3; June 23, 1982, p. B-1; June 24, 1983, p. D-1; June 19, 1984, p. D-1; July 22, 1985, p. D-1.

Table 393.-- RETAIL FOOD PRICES FOR KAUAI, HONOLULU, AND 21 MAINLAND CITIES: JUNE 1985

[Totals for a "market basket" of 32 common food items, comparable to survey reported in table 392]

Geographic area	Amount (dollars)	Index	
		Honolulu = 100	Mainland = 100
Kauai	64.14	110.7	145.4
Honolulu	57.95	100.0	131.4
21 Mainland cities	44.10	76.1	100.0

Source: Data from Kauai Office of Economic Development, reported in Honolulu Advertiser, August 21, 1985, p. A-7.

Table 394.-- COMPARATIVE ANNUAL LIVING COSTS IN HONOLULU AND OTHER URBAN AREAS: 1984

[For a four-person higher-income suburban family. Indexes are calculated with costs in the median U.S. urban area equal to 100. Shown separately for the three costliest urban areas]

Rank	Total budget 1/			Goods and services 2/	
	Urban area	Cost (dollars)	Index	Urban area	Index
1	San Jose, CA	57,975	122.6	Anchorage, AK	121.5
2	Honolulu, HI	57,944	122.5	Honolulu, HI	115.3
3	San Francisco, CA ..	56,981	120.5	Washington, DC ...	109.6

1/ Calculated for 100 U.S. urban areas. Based on a standard of living requiring an income of $46,000 in the median urban area.

2/ Calculated for 60 U.S. urban areas. Based on a standard of living requiring an income of $50,000 in the median urban area.

Source: Runzheimer and Company, Inc., Rochester, Wis., news releases dated May 30, 1984 and August 21, 1984.

Table 395.-- ANNUAL BUDGETS FOR THREE LEVELS OF LIVING FOR A FOUR-PERSON FAMILY ON OAHU: AUTUMN 1981

Item	Cost of budget (dollars)			Percent of urban U.S. average		
	Lower budget	Inter-mediate budget	Higher budget	Lower budget	Inter-mediate budget	Higher budget
Total budget 1/	20,319	31,893	50,317	133	126	132
Total consumption	15,240	21,530	29,952	126	118	120
Food	6,108	7,626	9,708	134	131	132
At home	5,501	6,649	7,972	141	137	138
Away from home	607	977	1,736	93	100	110
Housing 2/	4,022	6,493	10,200	143	117	121
Shelter 2/	3,171	5,098	7,355	150	117	126
Renter costs 2/	3,171	3,991	5,836	150	146	136
Homeowner costs 2/	...	5,467	7,623	...	112	124
Housefurnishings and operations	851	1,395	2,499	121	116	110
Transportation 2/	1,288	2,421	3,220	98	102	105
Automobile owners	1,827	2,421	3,220	105	97	105
Clothing	1,042	1,432	2,010	111	107	103
Personal care	448	590	834	118	116	116
Medical care 2/	1,583	1,590	1,657	110	110	110
Other family consumption 2/	749	1,378	2,323	116	115	118
Other items 2/	716	1,137	1,966	115	111	114
Social security and disability payments	1,424	2,049	2,049	137	120	103
Personal income taxes	2,939	7,177	16,350	184	162	175

1/ Among the 25 metropolitan areas for which separate indexes were reported, Honolulu ranked first in total budget costs at the higher and intermediate levels and second at the lower level (where Anchorage ranked first). For 1972-1980 estimates, see Data Book 1984, table 406.

2/ For details, see either the Data Book 1984, table 407, footnotes, or the original source.

Source: U.S. Bureau of Labor Statistics, Autumn 1981 Urban Family Budgets and Comparative Indexes for Selected Urban Areas (release USDL: 82-139, April 16, 1982).

Table 396.-- ANNUAL BUDGETS FOR THREE LEVELS OF LIVING FOR A RETIRED COUPLE ON OAHU: AUTUMN 1981

[For a retired husband, age 65 years or over and wife. Excludes personal income taxes]

Item	Cost of budget (dollars)			Percent of U.S urban average		
	Lower budget	Intermediate budget	Higher budget	Lower budget	Intermediate budget	Higher budget
Total budget 1/	8,665	12,157	17,576	120	119	117
Total family consumption	8,292	11,426	16,284	120	119	117
Food	3,003	3,890	4,962	138	134	136
At home	2,836	3,531	4,245	141	137	139
Away from home	167	359	717	95	109	123
Housing 2/	2,587	3,827	5,985	109	113	113
Shelter 2/	1,860	2,356	3,423	103	107	110
Renter costs 2/	2,383	3,293	4,520	147	155	140
Homeowner costs 2/	1,512	1,851	2,953	79	83	97
Housefurnishings, operations	727	1,471	2,396	126	123	118
Transportation 2/	782	1,293	2,001	141	121	102
Clothing	260	428	615	107	105	98
Personal care	222	323	473	112	111	112
Medical care	1,111	1,120	1,129	102	103	103
Other family consumption 2/	327	545	1,119	119	119	124
Other items 2/	373	731	1,292	120	119	116

1/ Among the 25 metropolitan areas for which separate indexes were reported, Honolulu ranked second at all three levels (Anchorage ranked first at all three levels).

2/ For details, see either the Data Book 1983, table 345, footnotes, or the original source.

Source: U.S. Department of Labor, Bureau of Labor Statistics, Three Budgets for a Retired Couple, Autumn 1981 (release, USDL: 82-266, July 30, 1982).

Table 397.-- COST OF LIVING INDEXES AND PAY DIFFERENTIALS FOR FEDERAL EMPLOYEES IN HAWAII RELATIVE TO WASHINGTON, D.C.: 1983

Allowance category 1/	Oahu	Kauai	Maui County	Hawaii
Indexes 2/				
Local retail:				
Private housing	121.7	114.6	120.9	113.1
Federal housing	105.0	106.7	113.4	104.6
Commissary, PX:				
Private housing	111.8	113.1	...	...
Federal housing	95.1	105.1	...	...
Allowance rates 3/				
Local retail:				
Private housing	22.5	15.0	20.0	12.5
Federal housing	5.0	7.5	12.5	0
Commissary, PX:				
Private housing	12.5	12.5	...	...
Federal housing	0	5.0	...	...

1/ Based on access to military commissary and exchange facilities and type of housing occupied. "Local retail" refers to Federal employees who purchase goods and services from private retail establishments; "commissary, PX," to Federal employees who have unlimited access to and who use military commissary and exchange facilities. "Private housing" refers to Federal employees who occupy housing units that are privately owned or rented; "Federal housing," to Federal employees who occupy units owned or leased by a Federal agency.

2/ Washington, D.C., living costs=100. Based on a survey of comparative costs for Federal employees in 1983.

3/ Authorized allowance rate, expressed as a percentage differential, effective October 2, 1983.

Source: U.S. Office of Personnel Management, "Nonforeign Area Cost-of-Living Allowances for Guam and the State of Hawaii and Post Differentials for Certain Pacific Islands," Federal Personnel Manual System, FPM Letter 591-47 (1983).

Section 15

BANKING, INSURANCE, AND BUSINESS ENTERPRISE

Statistics in this section relate to banks and other financial institutions, stocks and bonds, insurance, fires, and business firms.

There were ten banks with 178 branches, eight savings and loan associations with 163 branches, four trust companies with seven branches, and 77 industrial loan or small loan licensees with 223 branch offices in Hawaii as of December 31, 1984. Deposits in Island banks reached $7.0 billion in mid-1984, compared with $2.6 billion a decade earlier. Assets of savings and loan associations stood at $4.8 billion in mid-1984, more than three times their 1974 level. There were 142 credit unions with combined assets of $1.2 billion at the end of 1984.

Approximately 234,000 Hawaii residents held shares in U.S. public corporations or investment companies in 1983.

Life insurance in force in Hawaii at the end of 1983 amounted to $26 billion, more than twice the figure reported ten years earlier. For all 720 insurance companies doing business in the Islands, Hawaii premiums amounted to $872 million in 1983 and losses, claims, and benefits paid came to $606 million. Oahu fire losses amounted to $11 million in fiscal 1984. Persons covered by the three major prepaid health insurance plans as of December 31, 1984, numbered 695,000, with membership dues of $369 million.

By mid-1985, more than 39,000 corporations and partnerships were registered to do business in Hawaii: 26,000 local ("domestic") corporations, 4,000 out-of-State ("foreign") corporations, and 9,000 partnerships. Business establishments with one or more employees in 1983 numbered 24,519; half had fewer than five employees. During fiscal 1985, 2,969 new local corporations were formed. Business receipts of corporations in 1981 exceeded $17 billion; business receipts of partnerships and proprietorships in the same year amounted to respectively $1.7 billion and $0.9 billion. Hawaii's largest corporation, Amfac, Inc., reported annual sales of $2.4 billion.

Sources for statistics on these subjects include the Hawaii State Department of Commerce and Consumer Affairs (specifically its Financial Institutions, Insurance, and Business Registration Divisions), the State Department of Taxation, the Honolulu Fire Department, the New York Stock Exchange, Dun and Bradstreet, Inc., local health insurance plans, the Hawaii Credit Union League, and the annual report on County Business Patterns issued by the U.S. Bureau of the Census. Historical Statistics of Hawaii, Sections 22 and 23, provides information for earlier periods. Comparable Mainland data appear in Sections 17 and 18 of Statistical Abstract of the United States: 1985.

Table 398.-- FINANCE AND INSURANCE ESTABLISHMENTS, BY TYPE: 1983

Type of establishment	SIC code	Number of establishments
Banking	60	208
Savings and loan associations	612	126
Other credit agencies	613-616	324
Security, commodity brokers and services	62	62
Insurance carriers	63	133
Insurance agents, brokers, and service	64	293
Holding and other investment offices	67	108

Source: U.S. Bureau of the Census, County Business Patterns 1983, Hawaii, CBP-83-13 (August 1985), p. 8.

Table 399.-- NUMBER OF BANKS AND OTHER FINANCIAL INSTITUTIONS, BY ISLANDS: DECEMBER 31, 1984

Island	Banks		Savings and loans		Industrial loan licensees		Trust companies	
	Firms	Branch offices	Associations	Branch offices	Firms	Branch offices	Firms	Branch offices
Total 1/	10	195	8	163	77	223	4	7
Hawaii	6	21	6	18	16	26	2	2
Maui	7	21	7	15	14	19	1	1
Lanai	1	1	2	2	-	-	-	-
Molokai	1	1	2	2	1	1	-	-
Oahu	8	121	8	114	70	168	4	4
Kauai	4	13	6	12	7	9	-	-
Niihau	-	-	-	-	-	-	-	-
Other 2/	3	17	-	-	-	-	-	-

1/ Includes out-of-state branches on other Pacific islands.

2/ Out-of-state branches of banks headquartered in Hawaii.

Source: Hawaii State Department of Commerce and Consumer Affairs, Bank Examination Division, information provided March 21, 1985.

Table 400.-- BANKS: 1974 TO 1984

Year	Number, June 30		Total assets, June 30 ($1,000)	Debits to demand deposits, cal. year ($1,000)	Bank clearings, cal. year ($1,000)
	Banks	Branch offices and facilities			
1974	8	164	2,875,085	38,495,103	21,219,856
1975	8	165	2,964,953	42,198,265	23,663,047
1976	8	168	3,207,161	44,908,514	27,173,406
1977	8	166	3,387,094	50,492,878	30,437,727
1978	8	171	4,003,656	58,264,541	34,104,261
1979	9	170	4,431,161	72,492,632	39,746,116
1980	9	173	5,099,835	84,336,851	42,719,522
1981	9	176	5,556,264	90,280,833	43,333,718
1982	10	179	6,373,192	89,384,383	42,811,992
1983	10	183	7,003,029	89,147,264	43,852,246
1984	10	184	7,909,905	91,805,884	43,627,833

Year	Deposits, June 30 ($1,000)			
	Total	Demand	Time	Government and other 1/
1974	2,573,664	819,177	1,074,603	679,883
1975	2,615,796	875,441	1,170,368	569,986
1976	2,883,238	880,902	1,326,326	676,010
1977	3,008,895	932,909	1,497,021	578,965
1978	3,601,380	1,099,932	1,664,932	836,517
1979	3,930,365	1,171,686	1,863,368	895,311
1980	4,524,532	1,259,679	2,098,238	1,166,615
1981	4,790,261	1,082,767	2,559,876	1,147,618
1982	5,458,604	1,031,492	2,933,285	1,493,827
1983	6,230,996	1,102,606	3,530,499	1,597,891
1984	7,013,394	1,730,353	3,477,183	1,805,858

NA Not available.

1/ Beginning 1981, includes foreign deposits.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Financial Institutions, Comparative Statement of Condition of Banks (semi-annual) and records.

Table 401.-- SAVINGS AND LOAN ASSOCIATIONS: 1974 TO 1984

[As of June 30]

Year	Number		Assets ($1,000)	Deposits 1/ ($1,000)
	Associations	Branches, facilities, and agencies		
1974	11	82	1,474,175	1,146,587
1975	11	90	1,650,050	1,326,024
1976	11	107	1,923,501	1,608,434
1977	11	112	2,345,999	1,952,042
1978	10	115	2,876,344	2,211,889
1979	9	128	3,447,135	2,664,704
1980	8	139	3,896,380	2,901,379
1981	9	151	4,420,035	3,083,182
1982	8	155	4,596,314	3,259,147
1983	8	154	4,631,588	3,496,835
1984	8	157	4,782,952	3,757,861

1/ Withdrawable shares, withdrawable deposits, investment certificates, and NOW accounts.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Financial Institutions, *Comparative Statement of Condition of Savings and Loan Associations* (semi-annual) and records.

Table 402.-- TRUST COMPANIES AND LOAN LICENSEES: 1974 TO 1984

[As of June 30]

Year	Trust companies		Industrial loan licensees		Small loan licensees	
	Number	Assets ($1,000)	Number	Assets ($1,000)	Number	Assets ($1,000)
1974	3	41,181	225	680,286	24	653
1975	3	46,988	235	718,010	6	67
1976	3	53,365	239	797,883	6	32
1977	3	57,911	242	742,330	-	-
1978	3	59,862	238	776,687	-	-
1979	3	53,779	243	868,539	-	-
1980	4	70,156	249	982,858	-	-
1981	4	89,130	244	1,072,914	-	-
1982	4	121,526	238	1,144,724	-	-
1983	4	157,611	224	1,580,705	-	-
1984	4	47,384	218	1,212,579	-	-

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Financial Institutions, Comparative Statement of Condition of Trust Companies (semi-annual), Industrial Loan Licensees Comparative Consolidated Statement of Condition (semi-annual), and records.

Table 403.-- CONSUMER CREDIT OUTSTANDING AT BANKS: 1980 TO 1983

[Millions of dollars. As of December 31]

Type of credit	1980	1981	1982	1983
Total	799.8	806.5	821.6	854.1
Credit card and related plans ..	170.2	184.3	189.9	192.7
Automobile loans	222.8	216.9	218.8	239.2
Home improvement loans	75.5	84.0	82.4	71.1
Other installment loans	214.6	229.3	232.7	243.8
Single payment loans	116.7	92.0	97.8	107.4

Source: Bank of Hawaii Economics Department, records.

Table 404.-- CREDIT UNIONS: 1978 TO 1984

[As of December 31]

Year	Number of credit unions	Assets (dollars)	Shares (dollars)	Number of credit union members
1978	158	704,130,075	626,367,918	344,731
1979	159	755,417,266	667,505,910	364,509
1980	156	800,472,936	714,315,177	380,147
1981	152	826,741,896	741,883,222	398,913
1982	147	936,381,493	841,538,942	414,891
1983	144	1,085,367,118	983,903,868	422,240
1984	142	1,237,993,756	1,113,377,400	424,459

Source: Hawaii Credit Union League, records.

Table 405.-- HAWAII RESIDENTS HOLDING SHARES IN U.S. PUBLIC CORPORATIONS OR INVESTMENT COMPANIES: 1959 TO 1983

Year	State total	Year	State total	Honolulu MSA
1959	13,000	1975	58,000	...
1962	18,000	1980	175,000	...
1965	39,000	1981	174,000	149,000
1970	74,000	1983	234,000	199,000

Source: New York Stock Exchange, Inc., Shareownership in America 1959 (p. 27), Shareownership U.S.A., 1965 Census of Shareowners (p. 22), Shareownership - 1970, Census of Shareowners (p. 20), Shareownership 1975 (p. 19), Shareownership 1980 (p. 19), Shareownership 1981 (p. 21), and Shareownership 1983 (p. 24); Honolulu Star-Bulletin, May 2, 1984, p. A-28.

Table 406.-- INSURANCE BUSINESS TRANSACTED IN HAWAII: 1970 TO 1983

[Includes data for all insurance companies, life or other, authorized in Hawaii]

Year	Number of companies authorized, Dec. 31	Premiums paid ($1,000)	Losses, claims and benefits paid ($1,000)	Cumulative net investments in Hawaii Dec. 31 1/ ($1,000)
1970	469	246,986	114,011	977,535
1971	485	276,707	119,880	1,168,952
1972	502	303,954	124,502	1,282,566
1973	517	316,897	132,102	1,354,145
1974	534	331,146	155,272	1,487,228
1975	537	380,480	170,561	1,634,549
1976	542	421,545	192,547	1,771,556
1977	546	488,437	225,675	1,944,507
1978	556	555,392	240,320	2,076,291
1979	579	617,571	280,598	2,234,252
1980	594	682,306	352,515	2,561,217
1981	640	755,298	352,523	2,565,525
1982	699	795,786	436,094	2,731,165
1983	720	872,156	605,722	2,725,453

1/ Does not include balances in Hawaii banks.

Source: Hawaii State Department of Commerce and Consumer Affairs, Report of the Insurance Commissioner of Hawaii (annual).

Table 407.-- LIFE INSURANCE BUSINESS TRANSACTED IN HAWAII: 1970 TO 1983

Year	Number of companies, 1/ Dec. 31	Insurance written 2/ ($1,000)	Insurance in force, Dec. 31 ($1,000)	Premiums ($1,000)	Losses, claims, and benefits paid ($1,000)
1970	223	1,376,907	7,441,077	98,360	40,267
1971	233	1,565,272	8,127,837	106,524	45,301
1972	239	1,484,039	8,788,361	115,491	44,661
1973	262	1,935,643	9,433,897	120,229	47,980
1974	270	2,614,259	11,383,173	130,102	54,009
1975	279	2,046,479	12,650,488	138,597	53,291
1976	283	2,269,602	13,560,838	148,977	65,312
1977	285	2,432,658	14,680,847	161,725	63,040
1978	291	2,814,838	15,803,154	172,999	64,391
1979	311	2,999,500	17,122,778	186,487	74,627
1980	318	3,694,867	19,131,180	197,394	82,333
1981	346	4,995,919	21,287,888	204,049	98,942
1982	379	4,928,880	23,138,362	214,728	120,827
1983	390	6,230,150	26,133,708	227,848	141,096

1/ Authorized in Hawaii, including fraternal benefit societies.
2/ Includes insurance revived, increased, or transferred.
Source: Hawaii State Department of Commerce and Consumer Affairs, Report of the Insurance Commissioner of Hawaii (annual), and records.

Table 408.-- INSURANCE PREMIUMS AND LOSSES PAID, BY CLASS OF INSURANCE: 1983

[Dollars]

Class of insurance	Premiums	Losses, claims, and benefits paid
All classes	872,156,355	605,722,466
Life 1/	226,424,262	140,600,014
Fraternal	1,423,630	496,000
Fire, marine, casualty, and miscell.:		
Accident and health	80,413,160	37,969,885
Fire	12,201,033	4,630,230
Allied lines 2/	5,491,020	58,007,948
Homeowners multiple peril	41,403,833	67,604,834
Commercial multiple peril	35,118,872	39,069,862
Private passenger auto no-fault	33,769,826	25,310,988
Other private passenger auto liability	87,383,431	51,186,788
Commercial auto no-fault	3,695,667	4,141,044
Other commercial auto liability	24,571,893	21,848,872
Private passenger auto physical damage	67,893,752	35,989,535
Commercial auto physical damage	9,590,386	6,409,013
Workers' compensation	160,493,376	75,507,651
Other liability	25,664,557	17,653,211
Medical malpractice	5,464,004	1,400,611
Glass	262,750	100,797
Burglary and theft	772,432	134,577
Boiler and machinery	1,245,047	1,353,474
Fidelity and surety	10,587,122	1,179,223
Ocean marine	5,292,338	2,234,436
Inland marine	9,142,726	7,836,885
Earthquake	330,467	76
All other 3/	12,116,123	4,144,564
Surplus lines	11,404,648	911,948

1/ Excludes annuities and $1,149,047 in premiums for insurance on nonresidents.

2/ Includes extended coverage; tornado, windstorm and hail; sprinkler and water damage; explosion, riot and civil commotion; growing crops; flood; rain; and damage from aircraft and vehicle.

3/ Aircraft (all risks); title, credit, mortgage guaranty; livestock; service fees, excess of loss.

Source: Hawaii State Department of Commerce and Consumer Affairs, Report of the Insurance Commissioner of Hawaii, 1984, p. 8.

Table 409.-- INSURANCE BUSINESS TRANSACTED IN HAWAII, BY LOCATION OF HOME OFFICE: 1983

[Money amounts in millions of dollars. For insurance companies authorized to do business in Hawaii]

Subject	All companies	Domestic companies 1/	Foreign companies 2/	Alien companies 3/ (U.S. business only)
Number of companies, Dec. 31	720	21	679	20
Financial condition, Dec. 31:				
Assets	763,907.8	665.8	750,504.4	12,737.6
Liabilities exc. capital and surplus	678,243.7	516.0	665,660.8	12,066.9
Policyholder's surplus inc. capital	85,664.0	149.8	84,843.6	670.7
Capital	2,660.6	22.1	2,610.0	28.4
Net gain or loss	-3,922.3	-12.7	-3,562.8	-346.7
Hawaii business:				
Direct premiums written	927.7	322.5	579.4	25.9
Claims and benefits paid	677.7	252.3	405.8	19.6
Investments in Hawaii, Dec. 31 4/ ...	2,725.5	175.8	2,523.7	25.9
Mortgage loans (principal indebtedness)	1,445.9	96.9	1,335.1	14.0
Collateral loans (amount lent)	0.5	0.5	0.0	-
State and county bonds 5/	292.2	15.7	276.5	-
Utilities stocks and bonds 5/	223.2	20.2	194.8	8.2
Industrial and misc. stocks and bonds 5/	628.0	36.7	587.7	3.6
Real estate 5/	135.6	5.8	129.7	0.2
Balances in Hawaii banks	25.2	22.4	2.8	0.0

1/ A domestic insurer is one formed under the laws of Hawaii.

2/ A foreign insurer is one formed under the laws of any State of the United States (including the District of Columbia and Commonwealth of Puerto Rico) other than Hawaii.

3/ An alien insurer is one formed under the laws of a nation other than the United States.

4/ Does not include balances in Hawaii banks.

5/ Market value less encumbrances for real estate.

Source: Hawaii State Department of Commerce and Consumer Affairs, Report of the Insurance Commissioner of Hawaii 1984, pp. 12, 14, 16, 17, and 36-39.

Table 410.-- PREPAID HEALTH PLANS: 1981 TO 1984

Subject	1981	1982	1983	1984
Hawaii Medical Service Association:				
Persons covered, Dec. 31 1/	537,684	527,319	535,303	548,015
Membership dues ($1,000)	206,675	237,923	275,030	290,855
Island Care:				
Persons covered, Dec. 31 1/	2,660	5,153	7,610	9,418
Membership dues ($1,000)	626	1,833	3,659	5,565
Kaiser Foundation Health Plan:				
Persons covered--1/				
Annual average	119,407	122,554	127,359	135,077
Dec. 31	122,985	122,732	131,304	137,683
Membership dues ($1,000)	44,658	50,816	60,146	72,281
Commercial carrier premiums for accident and health insurance ($1,000)	66,579	70,078	80,413	(NA)

NA Not available.

1/ Subscribers and dependents, whether on a group or individual basis.

Source: Data provided by Hawaii Medical Service Association, Island Care, and Kaiser Foundation Health Plan, Inc.; Report of the Insurance Commissioner (annual).

Table 411.-- FIRE CHARACTERISTICS, FOR THE CITY AND COUNTY OF HONOLULU: 1979 TO 1984

[Years ended June 30]

Year	Fire alarms				Fire deaths	Fire losses (dollars)
	Total alarms	Fires	False alarms	Needless alarms 1/		
1979 ..	8,497	5,962	1,861	674	7	8,027,335
1980 ..	8,749	6,701	1,423	625	13	11,897,724
1981 ..	7,564	6,084	810	670	9	15,071,355
1982 ..	6,518	4,602	769	1,147	9	11,393,700
1983 ..	6,982	5,296	805	881	9	10,750,754
1984 ..	6,666	5,174	748	744	12	11,362,665

1/ Non-fire incidents, such as smoke scares or overheated food.

Source: Annual Report of the Fire Department, City and County of Honolulu (annual), and records.

Table 412.-- MAJOR FIRE LOSSES, FOR OAHU: 1877 TO 1984

Fire	Date	Fire deaths	Property loss ($1,000)
Esplanade	Dec. 18, 1877	-	259
Chinatown	April 18, 1886	-	1,455
Chinatown	Jan. 20, 1900	-	1/ 3,175
City of Honolulu, Pier 8	May 25, 1930	-	2,000
Pearl Harbor attack	Dec. 7, 1941	(NA)	2/ 500
Kalihi air crash	June 8, 1944	3/ 10	(NA)
Chevron and Shell, Pier 30 ...	Aug. 15, 1980	-	3,000

NA Not available.
1/ Claims total.
2/ Private property only.
3/ On ground only. The air collision itself killed 4.

Source: Pacific Commercial Advertiser, December 22, 1877, p. 2; H. A. Smith, "The Honolulu Fire Department," Hawaiian Annual for 1932, pp. 49-55; Honolulu Star-Bulletin, May 26, 1930 (p. 1), June 9, 1944 (p. 1), and August 16, 1980 (p. 1); Gwenfread Allen, Hawaii's War Years 1941-1945, pp. 6-7.

Table 413.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS: 1975 TO 1983

[Data refer to establishments with taxable payrolls. Coverage excludes government and self-employed workers]

Year	Number of employees 1/	Payroll ($1,000)		Number of establishments, by employment-size class 2/		
		First quarter	Annual	Total	1 to 4	5 to 9
1975	252,254	543,590	2,274,957	17,095	9,041	3,317
1976	252,252	577,390	2,412,122	17,271	9,135	3,359
1977	263,079	630,090	2,637,726	18,660	9,942	3,741
1978	282,256	699,638	2,966,228	19,222	9,849	3,991
1979	302,763	809,676	3,451,980	20,621	10,568	4,285
1980	314,106	930,312	3,849,636	21,125	10,928	4,346
1981	312,195	984,003	4,092,561	21,264	10,969	4,337
1982	309,546	1,026,323	4,264,863	21,655	11,095	4,592
1983	308,627	1,094,458	4,505,090	24,519	13,320	5,039

Year	Number of establishments by employment-size class --Con.					
	10 to 19	20 to 49	50 to 99	100 to 249	250 to 499	500 or more
1975	2,305	1,546	565	226	56	39
1976	2,332	1,544	566	248	49	38
1977	2,397	1,642	589	257	52	40
1978	2,695	1,721	602	264	57	43
1979	2,866	1,864	653	281	54	50
1980	2,868	1,906	666	311	55	45
1981	2,973	1,905	663	309	63	45
1982	2,921	2,005	648	296	56	42
1983	3,093	2,001	667	305	51	43

1/ For week including March 12. Figure for 1982 is revised.

2/ Data for 1983 refer to establishments active anytime during the year; data for earlier years refer to establishments in business at the end of the year.

Source: U.S. Bureau of the Census, County Business Patterns (annual).

Table 414.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY COUNTIES: 1982 AND 1983

[Excludes government employees and self-employed persons]

Year and county	Number of establishments 1/	Number of employees 2/	Payroll ($1,000) First quarter	Payroll ($1,000) Annual
1982				
State total	21,655	309,546	1,026,323	4,264,864
Hawaii	2,169	23,456	73,177	306,588
Honolulu	16,523	248,154	844,929	3,500,490
Kauai	971	11,996	35,522	148,230
Maui	1,988	25,904	72,560	309,100
Statewide	4	36	135	456
1983				
State total	24,519	308,627	1,094,459	4,505,091
Hawaii	2,513	23,229	71,830	296,544
Honolulu	18,611	247,118	903,964	3,721,659
Kauai	1,135	12,297	38,496	157,925
Maui	2,257	25,959	80,068	328,586
Statewide	3	24	101	377

1/ Data for 1982 refer to establishments in business at the end of the year; 1983, to establishments active anytime during the year.

2/ For week including March 12. Statewide and Honolulu figures for 1982 are revised.

Source: U.S. Bureau of the Census, County Business Patterns, 1983, Hawaii, CBP-83-13 (August 1985), p. 17.

Table 415.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY MAJOR INDUSTRY GROUP: 1982 AND 1983

[Excludes government and self-employed workers]

Major industry group	Number of establishments 1/	Number of employees 2/	Annual payroll ($1,000)
1982			
Total	21,655	309,546	4,264,863
Agricultural services, forestry, fisheries	207	1,850	20,290
Mining	14	282	6,187
Contract construction	1,540	19,416	425,681
Manufacturing 3/	863	23,215	363,791
Food and kindred products	204	10,354	158,805
Apparel and other textile products	136	3,457	31,208
Transportation, other public utilities	944	28,445	624,033
Wholesale trade	1,684	17,695	299,103
Retail trade 3/	6,057	85,817	781,545
Eating and drinking places	1,667	34,791	224,496
Finance, insurance, real estate	2,883	29,526	438,462
Services 3/	7,091	102,844	1,300,718
Hotels and other lodging places	224	25,475	282,444
Health services	1,677	20,227	362,092
Nonclassifiable establishments	372	456	5,055
1983			
Total	24,519	308,627	4,505,090
Agricultural services, forestry, fisheries	239	1,653	19,822
Mining	14	143	3,779
Contract construction	1,768	18,902	454,758
Manufacturing 3/	958	22,860	379,362
Food and kindred products	218	10,343	164,184
Apparel and other textile products	153	3,351	31,844
Transportation, other public utilities	1,037	27,923	598,203
Wholesale trade	1,834	17,666	316,840
Retail trade 3/	6,636	86,103	849,890
Eating and drinking places	1,882	34,866	252,373
Finance, insurance, and real estate	3,156	29,488	460,460
Services 3/	7,893	102,070	1,397,672
Hotels and other lodging places	239	24,258	287,655
Health services	1,811	20,744	399,396
Nonclassifiable establishments	984	1,819	24,306

Footnotes and source on next page.

Table 415.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY MAJOR INDUSTRY GROUP: 1981 AND 1982 - Con.

1/ Data for 1982 refer to establishments in business at the end of the year; 1983, to establishments active anytime during the year.

2/ For week including March 12. All-industry total and services subtotal for 1982 are revised.

3/ Includes subgroups not shown separately.

Source: U.S. Bureau of the Census, County Business Patterns, 1983, Hawaii, CBP-83-13 (August 1985), pp. 1-2.

Table 416.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY EMPLOYMENT-SIZE CLASS: 1983

[Excludes government employees and self-employed persons]

Employment-size class	Number of establishments	Number of employees	Annual payroll ($1,000)
Total	24,519	308,627	4,505,090
1 to 4	13,320	24,348	386,795
5 to 9	5,039	33,136	418,246
10 to 19	3,093	41,663	528,982
20 to 49	2,001	60,134	799,226
50 to 99	667	45,172	632,427
100 to 249	305	45,297	730,009
250 to 499	51	19,085	277,382
500 to 999	26	17,087	271,061
1,000 or more	1/ 17	22,705	460,965

1/ 1,000-1,499, 13 establishments; 1,500-2,499, 4 establishments.

Source: U.S. Bureau of the Census, County Business Patterns, 1983, Hawaii, CBP-83-13 (August 1985), pp. 3, 11, and 16.

Table 417.-- REGISTERED CORPORATIONS AND PARTNERSHIPS: 1982 TO 1985

[Excludes eleemosynary corporations]

Subject	1982	1983	1984	1985
Domestic (Hawaii) corporations:				
Formed 1/	3,126	2,773	2,770	2,969
Dissolved or merged 2/	1,436	1,846	4,103	2,617
On record, June 30	26,416	27,343	26,010	26,362
Foreign (non-Hawaii) corporations:				
Qualified 1/	468	480	495	581
Withdrawn, merged, or cancelled 2/	328	326	313	320
On record, June 30	3,723	3,877	4,059	4,320
Partnerships:				
Registered 1/	1,841	1,798	1,430	1,388
Dissolved or cancelled 2/	1,827	1,186	1,249	1,565
On record, June 30	8,208	8,820	9,001	8,824

1/ Annual totals for fiscal years ended June 30.

2/ Annual totals for fiscal years ended June 30. Annual fluctuations may partly reflect the sporadic purging of defunct firms from the registration files.

Source: Hawaii State Department of Commerce and Consumer Affairs, Business Registration Division, records.

Table 418.-- CHARACTERISTICS OF CORPORATIONS, PARTNERSHIPS, AND PROPRIETORSHIPS: 1979 AND 1981

[Money amounts in millions of dollars]

Subject	1979	1981
CORPORATIONS 1/		
Number of corporations	13,285	16,585
Taxable	7,463	7,536
Nontaxable	5,822	9,049
Business receipts	13,442	17,878
Taxable corporations	9,538	10,941
Nontaxable corporations	3,904	6,937
Taxable income, excluding net losses 2/	706.9	706.5
PARTNERSHIPS 3/		
Number of partnerships	...	7,107
With net profit	...	3,331
With net loss	...	3,776
Number of partners	...	105,983
Business receipts	...	1,661.8
Businesses with net profit	...	1,018.0
Businesses with net loss	...	643.8
Net profit reported	...	311.8
Net loss reported	...	346.0
PROPRIETORSHIPS		
Number of proprietorships	46,029	54,473
With net profit	32,357	33,475
With net loss	13,672	20,998
Business receipts	1,051.0	868.5
Businesses with net profit	896.9	717.3
Businesses with net loss	154.1	151.2
Net profit reported	263.5	184.4
Net loss reported	35.0	58.4

1/ Includes domestic, foreign, and Small Business Corporations.

2/ Includes taxable income reported by Small Business Corporations, taxable to individual stockholders only.

3/ Not available before 1981.

Source: Hawaii State Department of Taxation, Hawaii Income Patterns for Corporations (1979), Proprietorships (1979), and Corporation, Proprietorship, Partnership (1981).

Table 419.-- LARGEST PUBLIC AND PRIVATE CORPORATIONS: MOST RECENT AVAILABLE YEAR

[Data may include sales and employment on the Mainland or abroad]

Company	Year founded	Sales (million dollars)	Employees
Amfac	1849	2,392	22,000
Pacific Resources Inc. (PRI)	1904/1970	1,680	844
Castle & Cooke	1851	1,520	35,000
Hawaiian Electric Industries	1891/1983	665.2	1,701
Chevron USA (Hawaii Division)	1904	530	280
Alexander & Baldwin	1870/1900	485.9	3,450
Bancorp Hawaii	1897/1971	416	2,650
Hawaiian Telephone	1883	381.5	4,459

Source: Michael Schmicker, "Hawaii Business Top 250," Hawaii Business, August 1985, p. 29.

Table 420.-- NET INCOME OR LOSS AND TOTAL REVENUES OF SELECTED COMPANIES: 1983 AND 1984

Company	Net income or loss ($1,000)		Revenues (1,000,000)	
	1984	1983	1984	1983
Largest net incomes: 1/				
Alexander & Baldwin	66,590	53,069	486	453.2
Hawaiian Telephone	50,709	47,613	381.5	368.2
Hawaiian Electric Industries	35,339	31,044	673.3	625
Largest net losses: 1/				
Castle & Cooke 2/	76,667	49,665	1,520	1,362
State Savings 3/	28,900	7,300	41.4	50.4
Honolulu Federal	25,126	4/ 1,400	167	173.2

1/ Based on 1984 data for reporting companies.
2/ Fiscal year ended June 16.
3/ Hawaii operations only.
4/ Net income.

Source: Michael Schmicker, "Hawaii Business Top 250," Hawaii Business. August 1985, p. 67.

Table 421.-- NONFARM SOLE PROPRIETORSHIPS, TOTAL AND FEMALE OPERATED: 1982

Subject	Total	Female operated	
		Number	Percent
Number (1,000)	47.0	13.9	29.6
Business receipts (million dollars) ...	897.0	168.5	18.8

Source: U.S. Office of the President, The State of Small Business: A report of the President (May 1985), pp. 323-326.

Table 422.-- INDUSTRIAL AND COMMERCIAL FAILURES: 1977 TO 1982

Year	Number	Current liabilities (million dollars)
1977	9	1.8
1978	31	9.0
1979	38	8.7
1980	83	21.6
1981	89	23.5
1982	146	58.3

Source: Data from Dun and Bradstreet, Inc., cited in Statistical Abstract of the United States for 1979-1985.

Section 16

COMMUNICATIONS

This section presents statistics on the usage, finances, and operations of the various communications media: postal service, telephone, telegraph, radio, television, newspapers and periodicals, and books. Sections 12 and 15 contain employment and payrolls data for communications establishments.

Hawaii is served by all major communications media. In 1984 it had 130 post offices and stations handling 317 million pieces of mail and accounting for postal receipts in excess of $84 million. There were 472,000 telephone access lines in service, 339,000 telephone homes, about 2.1 billion local calls originated, 12 million completed interisland calls (in 1981), and 32 million incoming and outgoing transpacific calls (in 1980). Telegraph messages to and from Hawaii in 1983 totaled 146,000. The 45 commercial, public and educational radio stations in the Islands in 1985 included 26 on the regular broadcast band and 19 FM stations. The State also had 15 television stations (13 commercial and 2 public), including satellites but excluding translators. Ten cable TV companies served 211,000 subscribers. An estimated 97 percent of all households in the State had television sets, and the average prime-time TV audience in February 1985 numbered 187,000 households. Island publishers printed nine daily newspapers, numerous magazines and other periodicals, and a wide diversity of books. Newspaper circulation reported by the two English-language dailies on Oahu averaged 197,000 in 1984-1985.

The major sources for statistics on communications are the reports and records of the U.S. Postal Service, Federal Communications Commission, Division of Consumer Advocacy and CATV Division of the Hawaii State Department of Commerce and Consumer Affairs, Hawaiian Telephone Company, Audit Bureau of Circulations, A. C. Nielsen Co., and Hawaii Media Guide. Earlier figures appear in Historical Statistics of Hawaii, Section 18. Data on communications for other States and for the nation as a whole are carried in Statistical Abstract of the United States: 1985, Section 19.

Table 423.-- POSTAL SERVICE: 1970 TO 1985

[For fiscal years ended June 30 through 1976 and September 30 thereafter]

Fiscal year	Number, end of fiscal year 1/		Gross postal receipts ($1,000)	Pieces of mail 2/ (millions)
	Post offices	Stations		
1970	80	...	20,840	187
1971	80	...	21,976	201
1972	78	...	23,434	215
1973	77	...	27,100	226
1974	76	...	29,663	233
1975	76	...	33,549	238
1976	76	...	37,433	242
1977	76	...	43,790	249
1978	76	...	49,198	267
1979	76	...	55,267	276
1980	76	...	58,413	298
1981	76	...	67,055	293
1982	76	...	77,424	290
1983	76	3/ 50	80,943	305
1984	76	4/ 54	84,733	317
1985	76	64	94,975	339

1/ Includes all 1st-, 2nd-, 3rd-, and 4th-class post offices and both classified and contract stations (classified stations are those staffed by career postal employees; contract stations, those operated under a contractual agreement between the Postal Service and an individual contractor). Station counts not available before 1983. As of September 30, 1985, Hawaii had 32 1st class offices, 28 2nd class offices, 16 3rd class offices, no 4th class offices, 29 classified stations, and 35 contract stations.

2/ Originating in Hawaii. Mail originating elsewhere is excluded.

3/ April 15.

4/ June 30.

Source: U.S. Postal Service, Pacific District, Honolulu, records.

Table 424.-- NUMBER OF POST OFFICES AND STATIONS, BY ISLANDS: JUNE 30, 1985

Island	Total	Post offices 1/			Stations	
		1st class	2nd class	3rd class	Classified 2/	Contract 3/
State total ..	137	27	30	19	29	32
Hawaii	35	7	11	10	2	5
Maui	17	6	4	-	2	5
Lanai	1	-	1	-	-	-
Molokai	5	-	1	4	-	-
Oahu	59	11	5	1	24	18
Kauai	20	3	8	4	1	4
Niihau	-	-	-	-	-	-

1/ There are no fourth-class post offices in the State.

2/ Staffed by career postal employees.

3/ Operated under a contractual agreement between the Postal Service and an individual contractor.

Source: U.S. Postal Service, Honolulu, Address Information Systems, data supplied July 2, 1985.

Table 425.-- U.S. POSTAL SERVICE EMPLOYMENT, BY SEX: 1970 AND 1980

Year	Both sexes	Male	Female
1970	2,073	1,662	411
1980	2,220	1,749	471

Source: U.S. Bureau of the Census, 1980 Census of Population, Detailed Population Characteristics, Hawaii, PC80-1-D13 (October 1983), p. 321.

Table 426.-- STATISTICAL SUMMARY FOR SPECIFIED ZIP CODE AREAS: 1980 AND 1985

[All addresses in the United States are identified geographically, for postal purposes, according to ZIP Code areas. This table presents data for representive areas. Comparable statistics for other ZIP Code areas in Hawaii, and a map of ZIP Code areas on Oahu, appear in the report cited in the source reference]

Subject	State total	Specified Zip Code areas			
		Downtown Honolulu 96813	Waikiki 96815	Kailua 96734	Hilo 96720
1985:					
Residences	291,766	7,115	20,824	14,204	12,718
P.O. boxes 1/	73,820	543	-	1,558	846
Businesses	25,243	3,956	1,707	694	1,606
1980:					
Population	964,691	17,612	31,123	47,705	38,537
Households	294,934	6,941	15,516	13,992	12,226
Median age (years)	28.4	33.2	39.6	27.7	29.0
Race: Percent Japanese	24.9	30.9	24.9	13.5	37.1
Persons per household	3.15	2.51	2.06	3.39	3.07
Percent foreign born	14.2	15.3	19.9	6.1	7.4
Percent different house in 1975	50.7	49.8	57.9	51.0	48.0
Persons 25 years and over:					
Percent high school graduates	73.8	70.9	79.2	84.2	71.3
Civilian labor force: Percent unemployed	4.7	4.6	4.7	4.4	6.4
Median household income (dollars)	20,473	17,630	16,292	25,825	18,050
Housing units:					
Number	334,235	7,317	24,556	14,456	12,807
Percent in 1-unit structures	51.7	32.7	9.0	74.7	75.2
Percent vacant	11.4	5.2	36.7	3.5	4.9
Renter occupied units:					
Percent of occupied units	48.3	60.0	64.7	37.3	40.1
Median rent (dollars)	271	297	339	366	261

1/ Excludes 16,245 Post Office boxes in ZIP codes unassigned in the 1980 Census.

Source: Hawaii State Census Statistical Areas Committee, Characteristics of ZIP Code Areas, 1980 (Report CTC-62, May 28, 1985).

Table 427.-- TELEGRAPH MESSAGES: 1973 TO 1983

Year	Total messages	From Hawaii to Mainland			From Mainland to Hawaii		
		Total from Hawaii	Originated in Hawaii	Originated elsewhere	Total to Hawaii	Originated on Mainland	Originated elsewhere
1973 ..	385,823	187,130	116,850	70,280	198,693	136,747	61,946
1974 ..	382,281	185,204	100,321	84,883	197,077	125,319	71,758
1975 ..	346,851	166,700	81,986	84,714	180,151	110,390	69,761
1976 ..	307,036	156,235	70,692	85,543	150,801	80,638	70,163
1977 ..	277,748	142,903	61,512	81,391	134,845	70,826	64,019
1978 ..	271,747	137,687	54,505	83,182	134,060	69,055	65,005
1979 ..	262,888	134,265	50,522	83,743	128,623	65,598	63,025
1980 ..	222,410	120,785	43,543	77,242	101,625	46,564	55,061
1981 ..	196,350	106,248	34,432	71,816	90,102	37,924	52,178
1982 ..	168,501	88,325	27,951	60,374	80,176	31,227	48,949
1983 ..	145,990	71,428	21,739	49,689	74,562	21,777	52,785

Source: Federal Communications Commission, Common Carrier Bureau, data provided February 12, 1985.

Table 428.-- TELEPHONE ACCESS LINES, BY ISLAND AND TYPE: 1981 TO 1984

[As of December 31. Access lines represent the lines connecting customers to the network regardless of the ownership of the customer premises equipment. Business access includes key and coin system lines]

Year	All access lines	By island		By type		
		Oahu	Other islands	Residence	Business	Other types
1981	431,893	324,968	106,925	314,355	95,000	22,538
1982	445,452	334,150	111,302	323,588	98,691	23,173
1983	458,339	342,094	116,245	332,051	102,923	23,365
1984	472,229	348,936	123,293	339,296	107,830	25,103

Source: Hawaiian Telephone Company, data provided February 27, 1985.

Table 429.-- TELEPHONES IN SERVICE AND RESIDENCE MAIN STATIONS: 1971 TO 1981

[As of December 31. Data limited to the Hawaiian Telephone Company. Because of deregulation of the telephone industry, the series reported in this table after 1981 no longer included all or almost all of the telephones in Hawaii, and moreover became subject to disclosure rules that precluded their publication for subsequent years]

Year	Telephones in service			Residence main stations
	State total	Oahu	Other islands	
1971	445,995	365,733	80,262	212,983
1972	498,593	412,443	86,150	221,277
1973	523,699	430,612	93,087	231,146
1974	544,718	444,359	100,359	239,923
1975	567,685	460,602	107,083	250,319
1976	596,952	480,937	116,015	262,982
1977	627,848	501,914	125,934	273,860
1978	659,141	523,472	135,669	285,948
1979	684,812	539,582	145,230	296,433
1980	712,095	555,790	156,305	303,928
1981	728,352	563,630	164,722	311,430

Source: Hawaiian Telephone Company, records, for 1971 through 1980; Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records, for 1981.

Table 430.-- TELEPHONE CALLS: 1974 TO 1984

[In thousands]

Year	Local 1/		Interisland 2/		Transpacific (paid) 2/	
	Originating	Completed	Paid 3/	Completed	Outgoing	Incoming and outgoing 4/
1974	1,438,381	949,332	4,494	4,564	4,775	8,620
1975	1,395,876	918,486	5,156	5,352	5,908	10,703
1976	1,517,337	1,012,064	5,851	6,140	7,448	13,621
1977	1,566,869	1,052,936	6,838	7,028	9,485	17,103
1978	1,719,200	1,139,829	8,087	8,317	12,232	22,540
1979	1,830,954	1,186,458	9,635	10,040	15,160	28,076
1980	1,957,427	1,468,070	10,652	11,239	17,199	31,609
1981	1,857,938	1,393,454	11,316	11,993	(NA)	(NA)
1982	1,892,430	1,419,322	(NA)	(NA)	(NA)	(NA)
1983	1,928,486	1,446,365	(NA)	(NA)	(NA)	(NA)
1984	2,050,664	1,537,998	(NA)	(NA)	(NA)	(NA)

NA Not available.

1/ The number of local calls is affected as central offices are being converted to Electronic Common Control (ECC). ECC records call attempts after the first digit is dialed. Non-ECC offices record the call attempts when the handset is lifted. Also significant in 1981 were an estimated 17 million fewer calls due to the implementation of Directory Assistance Charging. Because of these fundamental changes in data collection, more recent figures are not comparable to earlier years.

2/ As a result of deregulation of the telephone industry, these series became subject to disclosure rules after 1980 or 1981, and regular publication of annual data was discontinued.

3/ Excludes uncollectables.

4/ Includes calls paid in Hawaii and elsewhere.

Source: Hawaiian Telephone Company, records; Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 431.-- TELEPHONE SERVICE, BY ISLANDS: 1981

[As a result of deregulation of the telephone industry, the series shown in this table became subject to disclosure rules after 1981, and regular publication of annual data was discontinued]

Island	Telephones in service, Dec. 31	Main stations, Dec. 31		Inter-island calls 1/
		Residence	Business	
State total ..	728,352	311,430	81,499	11,992,843
Oahu	563,630	241,261	62,304	5,539,848
DATS 2/	27,676	-	12,497	...
Other Oahu	535,954	241,261	49,807	...
Other islands	164,722	70,169	19,195	6,452,995
Hawaii	70,183	30,735	8,440	2,698,799
Maui	58,875	24,225	6,524	2,384,111
Lanai	916	646	103	...
Molokai	3,652	1,759	440	...
Kauai	31,096	12,804	3,688	1,370,085

1/ Number completed, by island of origination. Oahu total includes Lanai and Molokai.

2/ Defense Administrative Telephone System.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 432.-- COMMERCIAL AND NON-COMMERCIAL RADIO AND TELEVISION BROADCASTING STATIONS IN OPERATION: 1925 TO 1985

Date	Commercial stations			Non-commercial stations		
	AM	FM	TV 1/	AM	FM	TV 1/
1925: Jan. 1	2	-	-	-	-	-
1940: Jan. 1	3	-	-	-	-	-
1955: Jan. 1	13	1	3	-	1	-
1970: Jan. 1	25	4	10	-	1	2
1985: June 30	26	17	13	-	2	2

1/ Excluding translators and cable television.
Source: Federal Communications Commission, records.

Table 433.-- COMMERCIAL AND NON-COMMERCIAL RADIO AND TELEVISION BROADCASTING STATIONS IN OPERATION: JUNE 30, 1985

County	Commercial stations			Non-commercial stations		
	AM 1/	FM	TV 2/	AM	FM	TV 2/
State total ..	26	17	13	-	2	2
Hawaii	4	3	4	-	-	-
Maui	3	6	3	-	-	1
Honolulu	17	7	6	-	2	1
Kauai	2	1	-	-	-	-

1/ Station KAIM, with studios on Oahu but transmitter on Molokai, is included with the Honolulu total.

2/ Includes satellites but excludes translators and cable television.

Source: Federal Communications Commission, Field Operations Bureau, Honolulu, July 11, 1985.

Table 434.-- CABLE TELEVISION COMPANIES, SUBSCRIBERS, AND REVENUES, BY COUNTIES: 1983 AND 1984

County	Number of companies Dec. 31 1/		Subscribers, Dec. 31		Gross revenue 2/ ($1,000)	
	1983	1984	1983	1984	1983	1984
State total	10	9	187,966	210,527	22,101	24,919
Hawaii	3	3	17,528	17,701	2,343	2,450
Maui	2	2	16,007	18,180	1,757	2,218
Honolulu	4	3	148,649	167,216	16,898	18,658
Kauai	2	2	5,782	7,430	1,103	1,594

1/ State totals are unduplicated figures; one company provided service to both Hawaii and Maui Counties.

2/ Basic service only.

Source: Hawaii State Department of Commerce and Consumer Affairs, Cable Television Division, records.

Table 435.-- TELEVISION HOUSEHOLDS: 1973 TO 1985

Date	Total households	Television households	
		Number	Percent
September 1973	230,500	220,110	95.5
September 1974	243,300	233,290	95.9
September 1975	245,400	236,150	96.2
September 1976	252,900	243,380	96.2
September 1977	267,100	257,400	96.4
September 1978	270,400	261,170	96.6
January 1980	273,800	265,250	96.9
January 1981 1/	302,500	293,500	97.0
January 1982	310,700	300,560	96.7
January 1983	320,800	310,310	96.7
January 1984	324,100	313,470	96.7
January 1985	334,700	323,720	96.7

1/ Reflects effect of revision incorporating 1980 Census data.

Source follows next table.

Table 436.-- HOUSEHOLDS AND PERSONS VIEWING TELEVISION BY TIME OF DAY: 1974 TO 1985

[In thousands. Mean number of viewers, Sunday througn Saturday]

Year and month	Sign-on to sign-off 7 A.M. to 1 A.M.		Prime time 6:30 P.M. to 10 P.M.	
	Households 1/	Persons 2/	Households 1/	Persons 2/
1974: May	59	106	134	279
Nov.	74	121	156	317
1975: Feb.	70	121	162	328
May	64	110	143	294
Nov.	76	123	159	321
1976: Feb.	73	133	166	343
May	69	117	149	290
Nov.	75	129	159	309
1977: Feb.	73	125	163	324
May	69	121	153	312
Nov.	80	145	163	332
1978: Feb.	75	136	167	344
May	70	127	153	301
Nov.	82	103	3/ 171	3/ 250
1979: Feb.	79	100	168	340
May	77	96	159	313
Nov. 4/ .	...	...	...	...
1980: Feb.	78	105	169	258
May	74	101	156	240
Nov.	73	128	150	300
1981: Feb.	75	134	158	319
May	79	137	164	320
Nov.	85	146	165	327
1982: Feb.	81	139	166	327
May	75	129	148	293
Nov.	84	142	174	335
1983: Feb.	86	147	182	357
May	85	142	174	330
Nov.	88	147	176	334
1984: Feb.	86	149	182	354
May	82	139	163	317
Nov.	93	158	188	357
1985: Feb.	90	150	187	360
May	87	143	175	332

1/ Average number with a TV set turned on.

2/ Average number of persons, 2 years and older, in TV households that are viewing any station.

3/ Reported only for 7:00 p.m. to 10:00 p.m.

4/ Records missing.

Source: Nielsen Station Index, Honolulu, Hawaii, issued three times annually.

Table 437.-- AVERAGE PAID CIRCULATION OF DAILY AND SUNDAY ENGLISH-LANGUAGE NEWSPAPERS: 1981-82 TO 1984-85

[Averages for 12-month periods ended in March. Foreign-language daily newspapers, not included in this table, are the Hawaii Hochi, Japanese and English; The Korean Times and Han Kook Ilbo, Korean; and United Chinese Press, Chinese]

Newspaper	1981-82	1982-83	1983-84	1984-85
Daily:				
Honolulu Advertiser 1/	83,825	84,882	85,593	86,998
Honolulu Star-Bulletin 2/	112,011	112,912	111,825	110,045
Hawaii Tribune-Herald (Hilo) 3/	18,912	19,103	19,438	19,868
West Hawaii Today (Kailua-Kona) 4/ ..	6,804	6,599	6,762	7,138
Maui News (Wailuku) 5/	13,965	14,323	15,468	15,983
Garden Island (Lihue) 6/	9,348	9,363	9,649	9,550
Sunday morning:				
Sunday Star-Bulletin and Advertiser .	197,135	197,142	197,793	198,184
Hawaii Tribune-Herald (Hilo)	20,531	21,094	21,892	22,605
West Hawaii Today (Kailua-Kona) 7/ ..	...	...	...	6,626
Maui News (Wailuku) 8/	...	...	...	14,668
Garden Island (Lihue) 9/	...	...	...	8,900

1/ Mornings, Monday through Saturday.

2/ Afternoons, Monday through Saturday.

3/ Afternoons, Monday through Friday.

4/ Mornings, 3 times weekly, through February 1982, and 5 times weekly, Monday through Friday, beginning March 1, 1982.

5/ Afternoons, Monday through Friday. Figure for 1981-1982 refers to 6-month period ended March 31, 1982.

6/ Afternoons, 4 times weekly (Monday, Wednesday, Thursday, and Friday, April 1, 1981 to February 14, 1982; Monday, Tuesday, Wednesday, and Friday, beginning February 15, 1982).

7/ Beginning April 29, 1984.

8/ Beginning September 1984.

9/ Beginning July 1, 1984.

Source: Audit Bureau of Circulations data provided to DPED by newspaper publishers.

Table 438.-- PERIODICALS PUBLISHED IN HAWAII: 1985

Frequency	Newspapers		Magazines and other periodicals 1/
	English	Foreign language	
Daily, 5 to 7 times weekly ...	6	3	-
2 to 4 times weekly	-	-	1
Weekly	9	1	15
Semi-monthly or biweekly	3	3	18
Monthly	2	-	53
1 to 10 times annually	-	-	40

1/ Includes regularly published magazines, company and in-house publications, labor publications, educational publications, military and federal publications, and special interest publications. Does not include publications that are updated as required, or other irregular publications. Not comparable to previous years' data.

Source: Aloha United Way, Hawaii Media Guide, April 1985.

Table 439.-- BOOKS AND SCHOLARLY JOURNALS PUBLISHED BY THE UNIVERSITY OF HAWAII PRESS: 1982 TO 1984

[The University Press of Hawaii was renamed the University of Hawaii Press in 1982]

Year	Published titles 1/		New books and journals published 2/		Volumes sold 2/	Sales revenues 2/ (dollars)
	Cumulative total	In print	Books	Scholarly journals		
1982	648	499	29	7	196,093	888,504
1983	669	525	22	7	197,981	1,510,885
1984	716	552	38	9	233,859	1,634,180

1/ As of June 30.

2/ Year ended June 30.

Source: The University of Hawaii Press, information provided February 12, 1985.

Table 440.-- POSTAGE RATES AND NEWSPAPER PRICES, FOR HONOLULU: 1975 TO 1985

[In cents. As of July 1]

Year	Domestic first-class postage rates			Newspaper price 1/	
	Letters		Postal and post cards	Daily	Sunday
	First ounce	Each added ounce			
1975	10	10	8	20	50
1976	13	11	9	20	50
1977	13	11	9	20	50
1978	15	13	10	20	50
1979	15	13	10	25	60
1980	15	13	10	25	60
1981	18	17	12	25	75
1982	20	17	13	25	100
1983	20	17	13	25	100
1984	20	17	13	25	100
1985	22	17	14	35	100

1/ Street sales, for the *Honolulu Advertiser*, *Honolulu Star-Bulletin*, and *Sunday Star-Bulletin and Advertiser*.

Source: Postal rates from *Statistical Abstract of the United States: 1985*, p. 541, as updated. Newspaper rates from nameplates.

Table 441.-- HAWAIIAN TELEPHONE COMPANY RATES FOR SPECIFIED TYPES OF SERVICE, FOR HONOLULU: 1975 TO 1985

[In dollars. As of July 1. Including federal excise tax where applicable]

Year	Local call, pay phone	Honolulu to Hilo		Honolulu to California		Monthly charge, indiv. res. line 3/
		Direct dialing 1/	Through operator 2/	Direct dialing 1/	Through operator 2/	
1975 ..	0.10	0.96	0.96	2.57	3.37	10.17
1976 ..	0.10	0.95	0.95	2.39	3.34	10.07
1977 ..	0.10	0.94	0.94	1.86	2.84	9.98
1978 ..	0.15	0.94	0.94	1.84	2.81	11.86
1979 ..	0.15	0.90	0.90	1.61	2.55	11.74
1980 ..	0.15	1.06	1.89	1.64	2.60	11.63
1981 ..	0.15	1.06	1.89	1.64	2.60	11.63
1982 ..	0.15	1.05	1.87	1.74	2.63	11.51
1983 ..	0.15	1.07	1.91	1.77	3.37	11.31
1984 ..	0.15	1.07	1.91	1.66	3.25	11.74
1985 ..	0.15	1.14	2.06	1.54	3.13	12.77

1/ Daytime calls, first three minutes.

2/ Station-to-station operator-handled daytime weekday calls, first three minutes.

3/ Telephone rental included through February 5, 1983, and excluded thereafter. In 1985, the monthly rental charge for a standard desk-top telephone was $1.85. On June [illegible], 1985, a federal subscriber line charge of $1.00 was added to monthly service bill.

Source: Hawaiian Telephone Company, records, and American Telephone & Telegraph, records.

Section 17

ENERGY AND SCIENCE

This section presents statistics on energy production and consumption, the electric and gas utility industries, research and development, and scientific resources. Related series are cited in Sections 12 (on utility employment), 14 (prices), and 18 (gasoline consumption).

Total energy consumption in 1984 amounted to 262 trillion British thermal units, compared with 219 trillion BTU a decade earlier. Aviation fuels accounted for 31 percent of the 1984 total. Total expenditures for fuels and electricity in 1984 totaled almost $2.0 billion.

Electricity sales exceeded 6.6 billion kilowatt-hours in 1984, a total that has increased 29 percent since 1974. Manufactured gas sales reached 30.9 million therms in 1984, 10.0 percent below the figure ten years earlier. Residential rates in 1984 averaged 11.8 cents per kilowatt-hour and $1.79 per therm, both more than double the corresponding rates a decade earlier. Average residential use (6,552 kWh and 203 therms in 1984) has declined significantly in recent years. By 1981, almost seven percent of the housing units in the State had solar heating devices.

The liquid fuel tax base for 1984 was approximately 926 million gallons, compared with 825 million in 1974. The 1984 total included 322 million gallons of gasoline, 486 million of aviation fuel, and 114 million of diesel oil. The average price for automotive gasoline rose from 78 cents per gallon in June 1978 to $1.58 three years later, then fell to $1.39 by June 1985.

The State is well served with scientific resources. Especially noteworthy is the cluster of telescopes used for astronomical observations at the summit of Mauna Kea -- six major facilities (plus two under construction). Federal research and development obligations in Hawaii reached $71 million in 1983. Forty-three patents were granted to Hawaii residents in 1984.

Information on energy and science can be obtained from reports and records of the U.S. Department of Energy, U.S. Patent and Trademark Office, U.S. Bureau of Labor Statistics, National Science Foundation, Hawaii State Department of Taxation, Hawaii State Department of Commerce and Consumer Affairs and its Division of Consumer Advocacy, Hawaii State Department of Planning and Economic Development Energy Division, UH Institute for Astronomy, and individual utility companies. Historical Statistics of Hawaii, Section 19, presents data for earlier years. Data for the nation as a whole can be found in the Statistical Abstract of the United States: 1985, Sections 20 and 21.

Table 442.-- CONSUMPTION OF ENERGY, BY SOURCE (PHYSICAL UNITS): 1960 TO 1983

[Revised from Data Book 1984, table 480]

Year	Petroleum 1/ (1,000 barrels)	Hydroelectric power 2/ (million kWh)	Geothermal power 3/ (million kWh)	Wood, waste, and wind 3/ (million kWh)
1960	17,648	27	0	0
1961	21,113	24	0	0
1962	20,125	20	0	0
1963	21,077	23	0	0
1964	22,523	115	0	0
1965	23,635	105	0	0
1966	26,351	112	0	2
1967	29,878	108	0	0
1968	33,039	94	0	30
1969	34,499	100	0	29
1970	35,490	108	0	24
1971	37,999	89	0	15
1972	39,076	91	0	18
1973	39,920	95	0	22
1974	37,883	92	0	30
1975	38,284	89	0	25
1976	38,895	93	0	29
1977	40,762	86	0	26
1978	41,246	84	0	0
1979	45,469	90	0	0
1980	45,245	86	0	0
1981	40,211	80	0	15
1982	37,349	90	0	26
1983	39,995	84	0	28

1/ For data by type of petroleum, see source.

2/ Includes only utility production for 1960-1963 and industrial and utility production for 1964 and thereafter.

3/ Consumed at utilities to produce electricity.

Source: U.S. Department of Energy, Energy Information Administration, State Energy Data Report, Consumption Estimates, 1960-1983 (May 1985), p. 204.

Table 443.-- CONSUMPTION OF ENERGY, BY SOURCE (TRILLION BTU): 1960 TO 1983

[Revised from Data Book 1984, table 481]

Year	Total energy consumed 1/	Petroleum 2/	Hydroelectric power 3/	Geothermal power 4/	Wood, waste, and wind 4/	Other types 5/
1960	99.3	99.0	0.3	0.0	0.0	0.0
1961	119.7	119.5	0.3	0.0	0.0	0.0
1962	114.7	114.5	0.2	0.0	0.0	0.0
1963	120.6	120.4	0.2	0.0	0.0	0.0
1964	130.5	129.3	1.2	0.0	0.0	0.0
1965	137.2	136.1	1.1	0.0	0.0	0.0
1966	152.6	151.4	1.2	0.0	(Z)	0.0
1967	173.2	172.1	1.1	0.0	0.0	0.0
1968	191.7	190.5	1.0	0.0	0.3	0.0
1969	199.0	197.7	1.0	0.0	0.3	0.0
1970	204.9	203.5	1.1	0.0	0.3	0.0
1971	218.8	217.7	0.9	0.0	0.2	0.0
1972	225.5	224.4	0.9	0.0	0.2	0.0
1973	230.5	229.3	1.0	0.0	0.2	0.0
1974	218.6	217.3	1.0	0.0	0.3	0.0
1975	221.1	220.0	0.9	0.0	0.3	0.0
1976	224.8	223.5	1.0	0.0	0.3	0.0
1977	236.2	235.0	0.9	0.0	0.3	0.0
1978	239.0	238.1	0.9	0.0	0.0	0.0
1979	261.3	260.3	0.9	0.0	0.0	0.0
1980	264.0	259.9	0.9	0.0	0.0	3.2
1981	236.0	232.1	0.8	0.0	0.2	3.0
1982	217.9	213.8	0.9	0.0	0.3	2.9
1983	231.0	227.0	0.9	0.0	0.3	2.8

Z Represents small, non-zero value.

1/ Totals may not equal sum of components due to independent rounding.

2/ For data by type of petroleum, see source.

3/ Includes industrial and utility production.

4/ Consumed at utilities to produce electricity.

5/ Coal, natural gas, and nuclear power.

Source: U.S. Department of Energy, Energy Information Administration, State Energy Data Report, Consumption Estimates, 1960-1983 (May 1985), p. 204.

Table 444.-- CONSUMPTION OF ENERGY BY END-USE SECTOR: 1960 TO 1983

[Trillion Btu. Revised from *Data Book 1984*, table 482]

Year	Total energy consumed 1/	Residential 2/	Commercial 2/	Industrial 2/	Transportation 2/	Electric utilities 3/
1960	99.3	7.3	5.1	20.6	66.3	17.6
1961	119.7	7.5	5.4	28.2	78.6	19.4
1962	114.7	8.0	5.5	30.2	71.0	21.4
1963	120.6	8.9	6.0	31.2	74.5	24.2
1964	130.5	9.6	6.6	34.2	80.0	26.7
1965	137.2	10.1	6.7	37.0	83.3	27.6
1966	152.6	10.8	7.3	38.4	96.0	29.7
1967	173.2	12.1	8.0	43.2	110.0	31.3
1968	191.7	13.1	8.8	42.4	127.5	35.0
1969	199.0	14.9	9.8	44.5	129.9	38.7
1970	204.9	16.4	11.5	47.7	129.3	43.2
1971	218.8	17.8	11.4	46.7	143.0	47.7
1972	225.5	19.6	12.7	52.9	140.3	54.1
1973	230.5	20.0	13.4	52.7	144.3	55.6
1974	218.6	20.3	13.3	52.8	132.2	57.5
1975	221.1	19.6	13.8	53.8	133.9	58.8
1976	224.8	21.3	15.3	54.4	133.8	62.5
1977	236.2	21.8	16.8	56.3	141.4	65.2
1978	239.0	21.8	17.4	55.2	144.6	66.8
1979	261.3	22.9	18.1	63.9	156.4	67.7
1980	264.0	23.3	20.9	73.1	146.7	69.7
1981	236.0	23.0	18.8	70.1	124.0	69.9
1982	217.9	21.6	17.6	76.5	102.2	66.9
1983	231.0	22.1	17.7	67.8	123.3	68.6

1/ Totals do not include small quantities of energy sources for which consistent historical data are not available, such as solar energy obtained by the use of thermal and photovoltaic collectors; and geothermal, biomass, and waste energy other than that consumed at the electric utilities.

2/ Data include power from electric utilities, including electrical energy losses incurred in the generation and transmission of electricity.

3/ Energy input at electric utilities. Distributed among the other four sectors.

Source: U.S. Department of Energy, Energy Information Administration, *State Energy Data Report, Consumption Estimates, 1960-1983* (May 1985), p. 205.

Table 445.-- PURCHASED FUELS AND ELECTRIC ENERGY USED FOR HEAT AND POWER BY MANUFACTURING ESTABLISHMENTS: 1980 AND 1981

Industry group	British thermal units (trillions)		Cost (million dollars)	
	1980	1981	1980	1981
All manufacturing	13.3	14.0	76.5	97.4
Food and kindred products	5.2	5.0	30.5	34.3

Source: U.S. Bureau of the Census, 1982 Census of Manufactures, Fuels and Electric Energy Consumed, MC82-S-4 (Part 2) (June 1983), table 3.

Table 446.-- ENERGY USE, BY PRIMARY SOURCE: 1981 TO 1984

Measure and year	All sources	Petroleum	Biomass	Hydro electricity	Geothermal	Coal
Trillion Btu:						
1981	271.49	244.76	24.09	0.77	-	1.87
1982	270.58	244.08	23.92	1.14	0.17	1.27
1983	272.09	245.20	24.85	0.90	0.19	0.95
1984 1/	262.04	235.31	25.00	0.56	0.21	0.96
Oil equivalent 2/ (1,000 barrels):						
1981	47,178	42,533	4,187	133	-	325
1982	46,890	42,295	4,142	198	30	225
1983	47,131	42,474	4,305	154	33	165
1984 1/.........	45,455	40,819	4,337	96	36	167

1/ Preliminary.

2/ Amount of petroleum required to provide comparable amount of energy.

Source follows next table.

Table 447.-- ENERGY USE, BY PRODUCT: 1980 TO 1984

[1,000 barrels of oil equivalent]

Product	1981	1982	1983	1984 1/
All products	47,178	46,890	47,131	45,455
Electricity fuels:				
Petroleum	11,178	10,687	11,032	11,329
Biomass	1,352	1,352	1,503	1,516
Hydroelectricity	133	198	154	96
Geothermal	-	30	33	36
Other petroleum:				
Aviation fuels	16,506	15,472	14,652	14,046
Motor gasoline	7,033	6,823	7,273	7,746
Residual fuel oil	2,844	4,053	4,599	3,597
Diesel, other distil. ...	3,805	3,949	3,598	2,849
Propane, other petrol. ..	1,167	1,311	1,320	1,253
Biomass	2,835	2,790	2,802	2,821
Coal	325	225	165	167

1/ Preliminary

Source: Hawaii State Department of Planning and Economic Development, Energy Division, Total Energy Use in Hawaii (April 30, 1985).

Table 448.-- EXPENDITURES FOR FUELS AND ELECTRICITY, BY SOURCE: 1970 TO 1984

[Millions of dollars]

Year	Total energy expend.	Fuel expenditures				Less: Electric utility fuel expend.	Plus: electric purch. by end-user
		Total	Petroleum fuel		Coal		
			Electric utility	Other			
1970	282.7	215.9	17.3	198.6	-	17.3	84.1
1971	320.8	246.8	24.8	222	-	24.8	98.8
1972	332.4	250.4	27.3	223.1	-	27.3	109.3
1973	391.1	300.9	36.3	264.6	-	36.3	126.5
1974	534.5	433.2	49.8	383.4	-	49.8	151.1
1975	669.9	546.1	91.9	454.2	-	91.9	215.7
1976	735.6	600	100.4	499.6	-	100.4	236
1977	844.5	696.5	123.5	573	-	123.5	271.5
1978	932.2	767.8	149.3	618.5	-	149.3	313.7
1979	1,261.3	1,083.7	177	906.7	-	177	354.6
1980	1,721.3	1,529.8	267.8	1,262	-	267.8	459.3
1981	2,195.2	1,947.7	451.5	1,492.9	3.3	451.5	699
1982	2,153.8	1,869.6	439.4	1,428	2.2	439.4	723.6
1983	2,019.9	1,730.1	369.3	1,359.1	1.7	369.3	659.1
1984	1,975.7	1,651.7	379.0	1,271.1	1.6	379.0	703.0

Source: Hawaii State Department of Planning and Economic Development, Division of Energy, unpublished estimates, April 17, 1985.

Table 449.-- EXPENDITURES FOR FUELS AND ELECTRICITY, BY SECTORS: 1970 TO 1984

[Millions of dollars]

Year	Total fuel	Residential		Commercial and industrial		Trans-port: fuel	Electric utilities: fuel
		Fuel	Elect.	Fuel	Elect.		
1970	215.9	5.5	34.1	18.9	50	174.2	17.3
1971	246.8	8.7	38.8	17.9	60	195.4	24.8
1972	250.4	6.1	42.6	20.5	66.7	196.5	27.3
1973	300.9	10.5	48.7	24.4	77.8	229.7	36.3
1974	443.2	10.4	57.1	44.7	94	328.3	49.8
1975	546.1	7.4	76.9	45.8	138.8	401	91.9
1976	600	12.7	84	45.9	152	441	100.4
1977	696.5	13.9	92.9	55	178.6	504.1	123.5
1978	767.8	13.3	105.8	52.6	207.9	552.6	149.3
1979	1,083.7	26.2	118.9	102.4	235.7	778.1	177
1980	1,529.8	19.5	146.4	135.4	312.9	1,107.1	267.8
1981	1,947.7	20.6	214.6	232.4	484.4	1,243.2	451.5
1982	1,869.6	26.2	222.4	283.6	501.2	1,120.4	439.4
1983	1,730.1	22.9	205.9	288.1	453.2	1,049.8	369.3
1984	1,651.7	20.6	217.0	206.8	486.0	1,045.3	379.0

Source: Hawaii State Department of Planning and Economic Development, Division of Energy, unpublished estimates, April 17, 1985.

Table 450.-- ELECTRIC UTILITIES: 1974 TO 1984

Year	Customers, Dec. 31			Installed capacity, Dec. 31 (kW)	Power sold (1,000 kWh)		
	Total	Residential	Other		Total	Residential	Other
1974 ..	255,901	219,633	36,268	1,419,892	5,113,906	1,635,928	3,477,928
1975 ..	263,816	226,836	36,980	1,454,359	5,334,755	1,676,438	3,658,317
1976 ..	270,035	232,070	37,965	1,454,359	5,615,209	1,750,618	3,864,592
1977 ..	275,616	237,557	38,059	1,481,680	5,831,610	1,779,314	4,052,296
1978 ..	284,064	244,863	39,201	1,487,490	6,004,891	1,799,024	4,205,867
1979 ..	293,061	252,898	40,163	1,502,840	6,197,426	1,851,457	4,345,969
1980 ..	301,544	260,358	41,186	1,514,180	6,345,531	1,852,984	4,492,547
1981 ..	305,927	265,042	40,885	1,652,380	6,424,016	1,855,837	4,568,179
1982 ..	313,009	270,712	42,297	1,644,980	6,332,707	1,801,297	4,531,410
1983 ..	319,449	276,194	43,255	1,578,780	6,425,578	1,814,336	4,611,242
1984 ..	324,384	280,518	43,866	1,578,780	6,606,255	1,837,954	4,768,301

Year	Average annual use (kWh) 1/		Average rate (dollars per kWh)		Revenues ($1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
1974 ..	7,449	95,895	.03493	.02704	151,177	57,149	94,028
1975 ..	7,391	98,927	.04586	.03794	215,677	76,885	138,792
1976 ..	7,543	101,794	.04796	.03934	235,999	83,957	152,042
1977 ..	7,490	106,474	.05222	.04408	271,553	92,917	178,636
1978 ..	7,347	107,290	.05883	.04943	313,722	105,846	207,876
1979 ..	7,321	108,208	.06420	.05424	354,595	118,862	235,733
1980 ..	7,117	109,079	.07901	.06964	459,251	146,397	312,854
1981 ..	7,002	111,732	.11563	.10605	699,031	214,584	484,447
1982 ..	6,654	107,133	.12348	.11061	723,622	222,423	501,199
1983 ..	6,569	106,606	.11348	.09828	659,089	205,889	453,200
1984 ..	6,552	108,702	.11831	.10181	702,899	217,447	485,452

1/ Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 451.-- ELECTRIC UTILITIES, BY ISLANDS: 1984

County or island	Customers, Dec. 31			Installed capacity, Dec. 31 (kW)	Power sold (1,000 kWh)		
	Total	Resi-dential	Other		Total	Resi-dential	Other
State total	324,384	280,518	43,866	1,578,780	6,606,255	1,837,954	4,768,301
Oahu	228,606	199,722	28,884	1,283,000	5,330,931	1,381,912	3,949,019
Hawaii	40,162	33,574	6,588	116,500	487,583	195,642	291,941
Kauai	18,865	16,030	2,835	62,080	228,951	79,835	149,116
Maui County	36,751	31,192	5,559	117,200	558,790	180,565	378,225
Lanai	872	737	135	-	5,701	3,433	2,268
Maui	33,445	28,451	4,994	110,300	528,842	167,620	361,222
Molokai	2,434	2,004	430	6,900	24,247	9,512	14,735

County or island	Average annual use (kWh) 1/		Average rate (dollars per kWh)		Revenues ($1,000)		
	Resi-dential	Other	Resi-dential	Other	Total	Resi-dential	Other
State total	6,552	108,702	0.11831	0.10181	702,899	217,447	485,452
Oahu	6,919	136,720	0.11032	0.09492	527,288	152,452	374,836
Hawaii	5,827	44,314	0.13745	0.12828	64,341	26,890	37,451
Kauai	4,980	52,598	0.15254	0.15064	34,641	12,178	22,463
Maui County	5,789	68,038	0.14359	0.13405	76,629	25,927	50,702
Lanai	4,658	16,799	0.17867	0.18129	1,024	613	411
Maui	5,892	72,331	0.13877	0.13028	70,320	23,260	47,060
Molokai	4,747	34,268	0.21589	0.21928	5,285	2,054	3,231

1/ Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 452.-- GAS UTILITIES: 1974 TO 1984

[Excludes bottled gas]

Year	Customers, Dec. 31			Gas sold (1,000 therms)		
	Total	Residential	Other	Total	Residential	Other
1974 ...	35,228	30,620	4,608	34,363	8,096	26,267
1975 ...	34,685	30,236	4,449	35,594	8,230	27,364
1976 ...	34,264	29,873	4,391	35,568	8,121	27,447
1977 ...	33,722	29,408	4,314	34,844	7,612	27,232
1978 ...	33,413	29,091	4,322	34,919	7,388	27,532
1979 ...	33,309	29,014	4,295	35,264	7,326	27,937
1980 ...	33,019	28,825	4,194	34,705	7,030	27,675
1981 ...	32,421	28,343	4,078	32,396	6,422	25,975
1982 ...	32,905	28,979	3,926	32,224	6,329	25,895
1983 ...	32,880	28,933	3,947	31,307	6,338	24,970
1984 ...	32,643	28,859	3,784	30,928	5,853	25,075

Year	Average annual use (therms) 1/		Average rate (dollars per therm)		Revenues ($1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
1974 ...	264	5,700	.68361	.52267	19,264	5,535	13,729
1975 ...	272	6,151	.81723	.63583	24,125	6,726	17,399
1976 ...	272	6,251	.82767	.63369	24,115	6,722	17,393
1977 ...	259	6,313	.85883	.65821	24,462	6,537	17,925
1978 ...	254	6,370	.91647	.71792	26,536	6,770	19,766
1979 ...	253	6,505	1.09260	.89221	32,931	8,006	24,925
1980 ...	244	6,599	1.46583	1.25951	45,162	10,305	34,857
1981 ...	227	6,369	1.72585	1.50091	50,069	11,083	38,986
1982 ...	218	6,596	1.73311	1.43891	48,229	10,969	37,260
1983 ...	219	6,326	1.79719	1.44022	47,352	11,390	35,962
1984 ...	203	6,627	1.78958	1.37488	44,949	10,474	34,475

1/ Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 453.-- GAS UTILITIES, BY ISLANDS: 1984

[Excludes bottled gas]

Island	Customers, Dec. 31			Gas sold (therms)		
	Total	Residential	Other	Total	Residential	Other
State total	32,643	28,859	3,784	30,928,082	5,852,973	25,075,109
Oahu	30,040	26,636	3,404	28,089,473	5,389,407	22,700,066
Hawaii	1,949	1,630	319	2,010,680	343,456	1,667,224
Kauai	275	275	-	59,857	59,857	-
Maui	379	318	61	768,072	60,253	707,819
Molokai	-	-	-	-	-	-
Lanai	-	-	-	-	-	-

Island	Average annual use (therms) 1/		Average rate (dollars per therm)		Revenues ($1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
State total	203	6,627	1.78958	1.37488	44,949	10,474	34,475
Oahu	202	6,669	1.80695	1.38741	41,233	9,739	31,494
Hawaii	211	5,226	1.58555	1.27442	2,669	544	2,125
Kauai	218	-	1.60955	-	96	96	-
Maui	189	11,604	1.57783	1.20966	951	95	856
Molokai	-	-	-	-	-	-	-
Lanai	-	-	-	-	-	-	-

1/ Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 454.-- SERVICE PROVIDED BY HAWAIIAN ELECTRIC CO., INC., ON OAHU: 1979 TO 1984

Year	Number of customers, Dec. 31		Net input 1/ (1,000 kWh)	Power sold (1,000 kWh)	Average annual residential use 2/ (kWh)	Average residential rate (dollars per kWh)	Installed capacity 3/ (kW) Dec. 31
	Total	Residential only					
1979 ..	213,781	186,875	5,466,677	5,163,786	7,846	0.05813	1,140,180
1980 ..	217,142	189,771	5,525,998	5,266,522	7,661	0.07126	1,140,180
1981 ..	218,162	191,283	5,507,151	5,276,227	7,474	0.11364	1,275,160
1982 ..	222,636	194,468	5,441,941	5,164,332	7,068	0.12066	1,255,600
1983 ..	226,070	197,400	5,546,600	5,230,658	7,030	0.10631	1,200,000
1984 ..	228,606	199,722	5,633,940	5,330,931	6,960	0.11032	1,200,000

1/ Net generated plus purchased power.
2/ Based on average number of customers during the year.
3/ Maximum generator nameplate.
Source: Hawaiian Electric Co., Inc., records.

Table 455.-- GAS UTILITY SERVICE BY GASCO, INC., FOR OAHU: 1979 TO 1984

Calendar year	Customers, Dec. 31		Gas sold 1/ (1,000 therms)		Average annual residential usage 1/ (therms)
	Total	Residential	Total	Residential	
1979 ...	30,582	26,686	32,135	6,736	252
1980 ...	30,471	26,625	31,636	6,455	242
1981 ...	30,019	26,201	29,543	5,893	225
1982 ...	30,221	26,665	29,307	5,765	216
1983 ...	30,305	26,674	28,795	5,849	219
1984 ...	30,041	26,636	28,190	5,389	202

1/ Includes liquefied petroleum gas.
Source: Gasco, Inc., records.

Table 456.-- LIQUID FUEL TAX BASE: 1974 TO 1984

[In thousands of gallons]

Year reported 1/	All types	Gasoline	Diesel oil	
			Non-hwy.	Hwy. use
1974	824,653	270,267	75,124	11,539
1975	839,289	284,552	75,120	12,710
1976	850,261	295,704	79,884	13,561
1977	888,136	311,409	85,484	13,817
1978	917,380	324,702	99,755	15,233
1979	960,837	324,337	108,460	16,596
1980	939,766	312,896	101,719	17,765
1981	918,437	305,886	101,212	15,771
1982	893,288	308,600	88,312	17,303
1983	919,865	310,085	86,790	16,440
1984	925,871	322,410	95,956	17,892

Year reported 1/	Liquefied petroleum gas		Aviation fuel	Small boats	
	Off-hwy.	Hwy. use		Gasoline	Diesel oil
1974	2,093	789	463,728	312	801
1975	1,823	1,380	462,384	411	908
1976	1,858	1,054	456,819	464	917
1977	2,036	1,280	472,654	558	899
1978	1,821	1,216	473,270	445	938
1979	2,213	1,140	506,825	410	856
1980	2,448	1,140	502,544	338	917
1981	2,378	1,136	489,551	424	2,079
1982	2,628	960	474,477	207	802
1983	3,013	1,052	501,648	213	624
1984	2,600	873	485,810	114	215

1/ Liquid fuel sold in a given month is usually reported the following month. Annual totals accordingly refer to fuel sold during a 12-month period ended November 30.

Source: Hawaii State Department of Taxation, "Liquid Fuel Tax Base, Collections and Distribution" (annual report).

Table 457.-- LIQUID FUEL TAX BASE, BY COUNTIES: 1984

[In thousands of gallons]

Type of fuel	State total	City and Co. of Honolulu	County of Maui	County of Hawaii	County of Kauai
Total	925,871	742,516	85,941	64,516	32,898
Gasoline	322,410	229,081	35,459	41,388	16,482
Diesel oil, non-hwy.	95,956	36,831	30,866	12,694	15,566
Diesel oil, hwy. use	17,892	12,685	1,639	3,098	470
Liq. pet. gas, off hwy. ..	2,600	1,841	280	397	82
Liq. pet. gas, hwy. use ..	873	690	53	99	32
Small boats, gasoline	114	74	-	40	-
Small boats, diesel oil ..	215	76	-	138	-
Aviation fuel	485,810	461,238	17,646	6,661	266

Source: Hawaii State Department of Taxation, "Liquid Fuel Tax Base, Collections and Distribution, Year Ending December 31, 1984" (annual release).

Table 458.-- BOILERS AND PRESSURE VESSELS: DECEMBER 31, 1984

Island	Power boilers	Heating boilers	Pressure vessels 1/
State total	617	2,636	5,355
Hawaii	85	222	796
Maui	59	221	538
Lanai	3	2	29
Molokai	8	33	30
Oahu	421	2,052	3,664
Kauai	41	106	298

1/ Five cubic feet or more.

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupation Safety and Health, Boiler and Elevator Inspection Bureau, data provided February 7, 1985.

Table 459.-- GASOLINE SERVICE STATIONS: 1982

[Data are shown only for establishments with payroll]

Subject	State total	Oahu only
Number of establishments	366	251
Offering self-service sale of gasoline	64	53
Sales ($1,000)	400,141	299,966
Gallon sales (1,000):		
Gasoline, total	228,151	172,809
Through self-service	51,926	48,879
Other automotive fuels	2,387	1,838
Pumps, Dec. 31:		
Gasoline, total	2,431	1,902
Self-service	478	412
Other automotive fuel	60	44
Total gallon storage capacity, all fuels (1,000)	6,300	(S)

S Withheld because estimates did not meet publication standards.

Source: U.S. Bureau of the Census, 1982 Census of Retail Trade, RC82-I-4, Miscellaneous Subjects (June 1985), tables 2, 3, 4, and 5.

Table 460.-- GASOLINE AVERAGE PRICES PER GALLON, FOR OAHU: 1978 TO 1985

[Dollars. Average prices include all applicable federal, state, and county taxes]

Date	All types 1/	Leaded regular	Unleaded regular	Leaded premium
1978: June	0.778	.761	.765	.793
Dec.	.804	.778	.791	.821
1979: June	.957	.922	.956	.970
Dec.	1.150	1.087	1.164	1.175
1980: June	1.352	1.310	1.350	1.383
Dec.	1.407	1.348	1.413	1.441
1981: June	1.580	1.508	1.588	1.619
Dec.	1.584	1.520	1.586	1.621
1982: June	1.512	1.454	1.511	1.556
Dec.	1.518	1.446	1.522	1.566
1983: June	1.455	1.391	1.450	1.506
Dec.	1.474	1.409	1.470	1.530
1984: June	1.497	1.425	1.490	(NA)
August ...	1.498	1.419	1.492	(NA)
Revised series 2/				
1984: Sept.	1.409	1.310	1.406	(NA)
Dec.	1.384	1.285	1.372	(NA)
1985: June	1.386	1.269	1.387	(NA)

NA Not available.

1/ Includes types not shown separately.

2/ Because of revised sample design, data are not directly comparable to earlier figures.

Source: U.S. Bureau of Labor Statistics, Consumer Prices: Energy and Food (monthly, 1979 forward), and printouts for 1978-1979.

Table 461.-- ENERGY GENERATED, PURCHASED, SOLD AND USED BY RAW SUGAR PLANTATIONS, BY ISLANDS: 1983

Subject	State total	Hawaii	Kauai	Maui	Oahu
Electricity (millions of kilowatt-hours)					
Generated 1/	815.03	262.51	211.25	221.02	120.25
Purchased	46.23	2.02	3.60	11.62	28.99
Sold	332.53	156.95	105.75	64.32	5.51
Used 2/	528.73	107.58	109.10	168.32	143.73
Gross heat values of boiler fuels (billions of Btu's)					
All fuels	27,023	11,006	4,691	7,320	4,006
Bagasse	24,340	10,240	4,350	6,200	3,550
Fuel oil	2,172	568	287	1,041	276
Other fuels	511	198	54	79	180

1/ Includes electricity generated by steam and by hydroelectric or diesel engine generators.

2/ Includes transmission losses and electricity used to operate power plant auxiliaries.

Source: Hawaiian Sugar Planters' Association, Energy Inventory of Hawaiian Sugar Plantations - 1983 (Energy Report 21, November 27, 1984), pp. 7-10.

Table 462.-- TAX CREDITS FOR SOLAR DEVICES AND HEAT PUMPS: 1977 TO 1983

[In 1976, the State Legislature approved a tax credit for solar energy devices installed after December 31, 1974. In 1981, the Legislature approved a tax credit for heat pumps installed after December 31, 1980]

Year installed	Solar devices			Heat pumps	
	Number claiming	Average cost (dollars)	Total credit allowed 1/ (dollars)	Number claiming	Credit claimed 1/ (dollars)
1977	1,101	2,135	229,729	...	...
1978	4,061	2,907	1,119,870	...	...
1979	4,375	3,031	1,249,971	...	...
1980	4,704	3,346	1,492,602	...	...
1981	6,445	3,500	2,107,293	2,013	164,155
1982	4,407	3,659	1,511,796	3,122	154,173
1983	3,148	3,601	1,076,222	665	39,921

1/ Credit limited to 10 percent of actual cost. Credits are prorated for condominium owners.

Source: Hawaii State Department of Taxation, Tax Credits Claimed by Hawaii Residents for 1977-1983.

Table 463.-- HOUSING UNITS WITH SOLAR WATER HEATING SYSTEMS: 1981 TO 1984

Subject	1981	1982	1983	1984
Number with systems, Dec. 31 ...	19,292	23,700	26,800	31,800
Percent with systems 1/	5.6	6.8	7.6	8.9

1/ Based on April 1 estimates of total housing stock in DPED Statistical Report 177 (July 23, 1985).

Source: Hawaii State Department of Planning and Economic Development, Energy Division, estimates based on data from Hawaii State Department of Health, Department of Planning and Economic Development, and Department of Taxation, and City and County of Honolulu Building Department. The 1984 estimate is provisional.

Table 464.-- FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT IN HAWAII: 1980 TO 1983

[Millions of dollars. For fiscal years ended September 30]

Fiscal year	Federal obligations for R and D	Federal obligations for R and D plant
1980	42.6	0.2
1981	49.9	0.7
1982	44.5	0.1
1983	71.4	0.1

Source: National Science Foundation, Federal Funds for Research and Development: Fiscal Years 1981, 1982, and 1983, Vol. XXXI, Final Report NSF 83-320, pp. 188-189; and Federal Funds for Research and Development: Fiscal Years 1983, 1984, and 1985, Vol. XXXIII, Detailed Statistical Tables NSF 84-336, p. 141.

Table 465.-- RESEARCH AND DEVELOPMENT EXPENDITURES AT UNIVERSITIES AND COLLEGES: 1980 TO 1983

[Thousands of dollars]

Fiscal year	Total R and D expenditures	Federally financed R and D expenditures
1980	40,593	25,833
1981	42,997	25,153
1982	43,439	26,616
1983	45,401	27,633

Source: National Science Foundation, Academic Science/Engineering: R and D Funds, Fiscal Year 1983, NSF 85-308, pp. 26-27.

Table 466.-- RESEARCH AND NON-RESEARCH EXTRAMURAL FUNDING, FOR THE UNIVERSITY OF HAWAII: 1980-81 TO 1984-85

[Research and non-research awards received through the Office of Research Administration, University of Hawaii]

Fiscal year	Total		Research		Non-research	
	Awards	Amount (dollars)	Awards	Amount (dollars)	Awards	Amount (dollars)
1984-85 ...	627	53,267,244	385	36,699,412	242	16,567,832
1983-84 ...	583	47,954,042	358	30,204,420	225	17,749,622
1982-83 ...	595	45,652,413	392	33,733,083	203	11,919,330
1981-82 ...	513	37,233,647	314	26,458,595	199	10,775,052
1980-81 ...	613	46,152,470	366	27,100,723	247	19,051,747

Source: Office of Research Administration, University of Hawaii, 1984-1985 Extramural Awards (August 1985).

Table 467.-- DOCTORAL SCIENTISTS AND ENGINEERS: 1983

Profession	Number	Median annual salary 1/ (dollars)
Total..................	1,779	39,100
Scientists	1,616	37,900
Physical scientists	282	...
Mathematical scientists	38	...
Computer/information spec. ..	21	...
Environmental scientists	92	...
Life scientists	543	35,300
Psychologists	157	...
Social scientists	483	36,200
Engineers	163	...

1/ Data limited to full-time employed civilians. Not reported for groups with fewer than 20 individuals reporting salary.

Source: National Science Foundation, Characteristics of Doctoral Scientists and Engineers in the United States: 1983, NSF85-303 (1985), pp. 60-65.

Table 468.-- TELESCOPES AT THE SUMMIT OF MAUNA KEA: 1984

Telescope (diameter in meters)	Year completed	Capital costs (million dollars)	Operating costs, 1983 (million dollars)	Hawaii-based staff (persons)
Completed:				
UH .61-m	1969	0.1	1.0	13
UH .61-m	1969	0.1		
UH 2.24-m	1970	3.0		
Canada-France-Hawaii	1979	30.0	3.5	43
NASA 3.0-m IRTF	1979	10.0	1.8	10
UK 3.8-m	1979	10.0	1.5	29
Under construction:				
UK-Neth. 15-m Millimeter	1986	20.0	1.0	20
Caltech 10-m Submillimeter	1986	10.0	1.5	11

Source: University of Hawaii, Institute for Astronomy, IFA Fact Sheet -- 1983, as updated to November 1984.

Table 469.-- PATENTS ISSUED TO HAWAII RESIDENTS: 1980 TO 1984

[Fiscal years ended September 30. Data include design, plant, and reissue patents]

Fiscal year	Patents
1980	32
1981	49
1982	31
1983	30
1984	43

Source: U.S. Department of Commerce, Patent and Trademark Office, Commissioner of Patents and Trademarks Annual Report, Fiscal Year '84, p. 54.

Section 18

TRANSPORTATION

This section presents statistics relating to public roads, motor vehicles, bicycles, traffic accidents, local public transit, civil aviation, harbors, and water traffic. Other information bearing on transportation appears in Sections 7, 12, 14, and 24.

Motor vehicle registration in Hawaii increased from 495,000 in 1974 to 717,000 in 1984. Vehicle miles rose during the same period from 3.9 billion to 6.5 billion. Hawaii residents purchased 49,000 new passenger cars and 15,000 trucks in 1984. By the end of that year, 582,000 licensed drivers had access to 3,888 miles of streets and highways throughout the State. Bus passengers carried by the Honolulu Mass Transit Lines increased from 51 million in 1974 to 76 million in 1984. Registered bicycles numbered 108,000 in 1974 and 79,000 in 1984.

Most scheduled interisland travel is by air. In 1984, airlines and air taxis reported 7.6 million interisland passengers, some 47 percent more than in 1974, and carried 56,000 tons of cargo. The State has 8 commercial airports, 15 general aviation, military or semi-private airports, 10 civilian heliports, 3,224 active pilots, and about 381 active civil aircraft in general aviation.

Rapid growth is similarly evident in transpacific air travel. Although surface passenger arrivals dropped from 54,000 in 1959 to 726 in 1984, air arrivals increased during the same 25-year span from 224,000 to 5.3 million. Overseas cargo received in the State in 1981 amounted to 51,000 tons by air and 9.4 million tons by ship.

Undocumented State-registered vessels as of December 31, 1984 numbered 13,000, compared with 8,000 in 1970. Median length was 18 feet, and four-fifths were stored on land. There were 1,300 documented vessels in the State in 1985, more than double the 1970 total.

The chief source for transportation statistics is the Hawaii State Department of Transportation and its Highways, Harbors and Airports Divisions. Other sources include the U.S. Coast Guard, Federal Aviation Administration, Federal Highway Administration, Army Corps of Engineers, Honolulu Department of Transportation Services and Department of Data Systems, County finance departments, Hawaii Automobile Dealers Association, and individual transportation companies. Data for the entire period of record through 1976 appear in Historical Statistics of Hawaii, Section 17. Similar statistics for other areas are reported in Statistical Abstract of the United States: 1985, Sections 22 and 23.

Table 470.-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED, BY ISLANDS: DECEMBER 31, 1984

[Excludes private thoroughfares and military roads not regularly open to public use. Declines since 1983 reflect revised measurements and not actual decreases in mileage]

Island	Total mileage	Paved		Unpaved
		Freeways	Other	
State total	3,887.54	57.20	3,605.41	224.93
Hawaii	1,374.80	7.10	1,294.94	72.76
Maui	606.35	3.20	532.91	70.24
Lanai	45.83	-	31.83	14.00
Molokai	125.63	-	113.63	12.00
Oahu	1,383.56	46.90	1,303.22	33.44
Kauai	351.37	-	328.88	22.49
Niihau	-	-	-	-

Source: Hawaii State Department of Transportation, memorandum dated August 27, 1985.

Table 471.-- HIGHWAY BRIDGES, BY ISLANDS: DECEMBER 31, 1984

Island	Number of bridges	Longest bridge		Highest bridge	
		Location	Length (feet)	Location	Height (feet)
State .	1,093	Pearl City Viad. .	5,946	Nanue	208
Hawaii	251	Hakalau	775	Nanue	208
Maui	150	Kalialinui	324	Uaoa	79
Lanai	-	None	...	None	...
Molokai	19	Manawainui	325	Manawainui	50
Oahu	592	Pearl City Viad. .	5,946	Kipapa	156
Kauai	81	Kalihiwai	798	Wahiawa, Koloa ..	90

Source: Hawaii State Department of Transportation, Highways Division, information provided April 19, 1985.

Table 472.-- HIGHWAY TUNNEL LENGTHS: DECEMBER 31, 1984

Island and name of tunnel		Length (feet)
All tunnels		9,676
Oahu:		
Pali No. 1:	Inbound (to Honolulu)	1,000
	Outbound (from Honolulu)	1,080
Pali No. 2:	Inbound	500
	Outbound	497
Wilson:	Inbound	2,775
	Outbound	2,813
Middle Street		393
Structure No. 8, Waiawa Interchange		300
Maui:		
Olowalu		318

Source: Hawaii State Department of Transportation, Highways Division, information submitted April 19, 1985.

Table 473.-- SIGNALIZED INTERSECTIONS AND METERED PARKING SPACES, BY ISLANDS: DECEMBER 31, 1980

Island	Signalized intersections	Metered parking spaces	
		On-street	Off-street
State total	586	3,442	4,308
Hawaii	30	458	291
Maui	14	-	26
Lanai	-	-	-
Molokai	-	-	16
Oahu	537	2,984	3,887
Kauai	5	-	88

Source: Compiled by the Hawaii State Department of Planning and Economic Development from State and County agencies.

Table 474.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE: 1974 TO 1984

[Taxable and non-taxable, including military non-resident exempt vehicles]

Year	All vehicles registered	Motor vehicles			
		All motor vehicles	Passenger vehicles 1/	Ambulances, hearses, patrol wagons	Buses
1974	510,627	495,037	420,228	90	1,951
1975	522,421	506,434	430,043	88	2,186
1976	551,438	535,217	452,616	82	2,624
1977	580,380	563,964	475,368	81	2,888
1978	599,990	583,601	489,878	84	3,052
1979	626,841	610,570	510,353	91	3,267
1980	633,846	617,571	514,669	85	3,366
1981	667,019	649,350	541,932	88	3,577
1982	689,468	671,513	566,060	80	3,863
1983	(NA)	(NA)	(NA)	(NA)	(NA)
1984	735,458	717,171	599,845	68	4,034

Year	Motor vehicles -- continued				Trailers and semi-trailers
	Trucks 1/	Truck tractors, tow trucks	Truck crane, misc.	Motor-cycles, motor scooters 2/	
1974	59,759	1,796	766	10,447	15,590
1975	63,134	1,877	733	8,373	15,987
1976	68,215	1,866	680	9,134	16,221
1977	73,762	1,848	609	9,408	16,416
1978	78,447	1,809	560	9,771	16,389
1979	84,578	1,784	511	9,986	16,271
1980	87,542	1,725	488	9,696	16,275
1981	90,954	1,641	458	10,700	17,669
1982	88,410	1,395	388	11,317	17,955
1983	(NA)	(NA)	(NA)	(NA)	(NA)
1984	101,233	1,428	364	10,199	18,287

Footnotes and source on next page.

Table 474.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE: 1974 TO 1984 -- Con.

NA Not available.

1/ Beginning in 1979, vans and other trucks under 6,500 lb. in personal use were legally classified as passenger vehicles, but the data shown here have been adjusted to continue inclusion of such vehicles in the totals for trucks.

2/ Excluding mopeds (1.5 HP or less), which are legally classified as bicycles.

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulations.

Table 475.-- MOTOR VEHICLES REGISTERED, BY COUNTIES: 1974 TO 1984

[Taxable and non-taxable, including military non-resident exempt vehicles. Includes passenger cars, buses, trucks, and motorcycles but excludes trailers and semi-trailers]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1974	495,037	381,502	51,064	22,802	39,669
1975	506,434	387,558	53,124	23,764	41,988
1976	535,217	406,149	57,151	25,300	46,617
1977	563,964	424,892	60,374	26,920	51,778
1978	583,601	436,347	63,025	27,614	56,615
1979	610,570	452,449	67,718	29,492	60,911
1980	617,571	454,316	70,047	30,604	62,604
1981	649,350	476,995	75,812	32,932	63,611
1982	671,513	495,629	77,024	33,931	64,929
1983	(NA)	(NA)	(NA)	(NA)	(NA)
1984	717,171	525,599	80,840	35,236	75,496

NA Not available.

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulations.

Table 476.-- PASSENGER VEHICLES REGISTERED, BY COUNTIES: 1974 TO 1984

[Taxable and non-taxable, including military non-resident exempt vehicles. Excludes ambulances, hearses, buses, trucks, motorcycles, and trailers]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1974	420,228	331,266	39,428	18,135	31,399
1975	430,043	336,953	41,048	18,873	33,169
1976	452,616	352,148	43,826	19,882	36,760
1977	475,368	367,398	46,072	21,001	40,897
1978	489,878	376,260	47,764	21,411	44,443
1979 1/ ...	510,353	388,788	51,159	22,790	47,616
1980	514,669	389,576	52,682	23,561	48,850
1981	541,932	409,305	57,397	25,363	49,867
1982	566,060	429,244	59,103	26,297	51,416
1983	(NA)	(NA)	(NA)	(NA)	(NA)
1984	599,845	447,872	63,182	27,376	61,415

NA Not available.

1/ Beginning in 1979, vans and other trucks under 6,500 lb. in personal use were legally classified as passenger vehicles, but the 1979 and subsequent data shown here have been adjusted to continue inclusion of such vehicles in the totals for trucks.

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulations.

Table 477.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE, FOR COUNTIES: 1984

[Taxable and non-taxable, including military non-resident exempt vehicles]

Type of vehicle	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
All vehicles	735,458	535,449	85,077	37,202	77,730
Motor vehicles	717,171	525,599	80,840	35,236	75,496
Passenger vehicles 1/	599,845	447,872	63,182	27,376	61,415
Ambulances 2/	68	50	11	3	4
Buses	4,034	3,148	266	188	432
Trucks 1/, ...	101,233	65,377	15,944	7,255	12,657
Truck tractors 3/	1,428	757	334	137	200
Truck cranes 4/	364	151	97	41	75
Motorcycles 5/	10,199	8,244	1,006	236	713
Trailers and semi-trailers ..	18,287	9,850	4,237	1,966	2,234

1/ Vans and other trucks under 6,500 lb. in personal use, legally classified as passenger vehicles, are included in the trucks category.

2/ Including hearses and patrol wagons.

3/ Including tow trucks.

4/ Including miscellaneous vehicles.

5/ Including motorscooters but excluding mopeds (1.5 HP or less), legally classified as bicycles.

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulation.

Table 478.-- AUTOMOBILES, TRUCKS, AND VANS AVAILABLE TO OCCUPIED HOUSING UNITS, BY COUNTIES: 1980

Number and type of vehicles available	The State	Hawaii	Honolulu	Kalawao	Kauai	Maui
Occupied housing units .	294,052	29,237	230,214	71	12,020	22,510
Total:						
None	30,509	2,463	25,628	8	788	1,622
1	115,357	9,193	95,735	18	3,209	7,202
2	94,699	10,775	71,456	25	4,440	8,003
3 or more	53,487	6,806	37,395	20	3,583	5,683
Automobiles:						
None	34,409	3,460	27,625	14	1,086	2,224
1	134,764	13,994	105,944	41	4,860	9,925
2	91,400	8,700	71,137	15	4,274	7,274
3 or more	33,479	3,083	25,508	1	1,800	3,087
Trucks or vans:						
None	238,462	18,112	198,141	29	7,323	14,857
1	50,555	9,657	29,748	28	4,256	6,866
2	4,218	1,206	2,038	13	334	627
3 or more	817	262	287	1	107	160

Source: U.S. Bureau of the Census, 1980 Census of Housing, Detailed Housing Characteristics, Hawaii, HC80-1-B13 (May 1983), tables 61 and 94.

Table 479.-- TAXABLE VEHICLES, BY TYPE AND EMPTY WEIGHT: 1984

Empty weight	Passenger vehicles	Buses	Trucks	Truck tractors, tow trucks	Motorcycles	Trailer
All taxable vehicles ..	530,270	2,892	29,723	532	5,195	12,184
Under 2,000 lb.	52,609	1	31	-	5,194	9,441
2,000 to 2,999 lb.	265,619	69	7,707	3	1	382
3,000 to 3,999 lb.	159,453	88	8,965	4	-	134
4,000 to 4,999 lb.	48,783	829	6,908	6	-	136
5,000 to 5,999 lb.	3,443	786	1,603	12	-	181
6,000 to 9,999 lb.	259	290	2,219	100	-	919
10,000 lb. and over	104	829	2,290	407	-	991
Median weight (lb.)	2,800	5,584	3,795	14,018	<2,000	<2,000

Source: Hawaii State Department of Transportation, Highways Division, printouts; medians calculated by Hawaii State Department of Planning and Economic Development.

Table 480.-- TRUCK CHARACTERISTICS: 1982, 1977, AND 1972

[Percent]

Vehicular and operational characteristics	1982 1/	1977	1972
Major use: Personal transportation	54.3	50.0	37.6
Body type: Pickup, panel, multistop, or walk-in .	89.6	86.4	73.5
Vehicle size: Light	92.9	89.0	71.6
Annual miles: Less than 10,000	59.7	54.1	59.8
Year model: Over 4 years old	75.8	68.1	59.3
Vehicle acquisition: Purchased new	47.3	54.6	55.9
Fleet size: 1 truck	72.3	64.0	53.4
Truck type: Single-unit, 2 axles	96.6	95.7	91.2
Range of operation: Local	78.2	87.3	84.6
Fuel type: Diesel and LPG	3.7	4.6	6.2

1/ There were 120,000 trucks in Hawaii in 1982, which traveled 1,071,700,000 truck miles, or 8,900 per truck.

Source: U.S. Bureau of the Census, 1982 Census of Transportation, Truck Inventory and Use Survey, Hawaii, TC82-T-12 (June 1985), tables 1 and 2.

Table 481.-- NEW PASSENGER CARS AND MOTOR TRUCKS REGISTERED: 1979 TO 1984

Year	Total	Passenger cars	Motor trucks
1979	48,371	40,481	7,890
1980	46,664	37,104	9,560
1981	46,995	39,188	7,807
1982	44,489	37,137	7,352
1983	52,927	42,772	10,155
1984	63,625	48,791	14,834

Source: R.L. Polk and Co., cited in Motor Vehicle Manufacturers Association of the United States, Inc., MVMA Motor Vehicle Facts and Figures (annual).

Table 482.-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS, BY PLACE OF MANUFACTURE: 1983 AND 1984

[Percent distributions]

Place of manufacture	All types		Passenger cars		Trucks	
	1983	1984	1983	1984	1983	1984
Total ...	100.0	100.0	100.0	100.0	100.0	100.0
Imports:						
Japanese ...	50.8	53.4	52.7	54.3	38.3	47.1
European ...	3.6	2.9	4.1	3.3	0.4	0.0
Domestics	44.2	43.0	42.2	41.9	57.8	50.8
Not reported .	1.3	0.7	1.0	0.5	3.4	2.1

Source: Hawaii Automobile Dealers' Association, HADA Yearbook 1984-85.

Table 483.-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS, BY MAKE, 1984, AND RANK, 1983 AND 1984

Rank		Make	New registrations, 1984		
1983	1984		Total	Passenger cars	Trucks
...	...	All makes	62,695	54,688	8,027
2	1	Nissan	10,878	9,425	1,453
1	2	Toyota	10,688	9,460	1,228
3	3	Ford	6,898	4,985	1,913
4	4	Chevrolet	5,386	4,243	1,143
5	5	Honda	4,765	4,765	0
6	6	Mazda	4,375	3,839	536
7	7	Dodge	3,446	2,774	672
8	8	Buick	2,111	2,111	0
10	9	Oldsmobile	2,038	2,038	0
11	10	Pontiac	1,501	1,501	0
12	11	Subaru	1,315	1,286	29
9	12	Mercury	1,086	1,086	0
22	13	Jeep	1,082	1,071	11
16	14	Lincoln	1,018	1,018	0
14	15	Isuzu	990	469	521
13	16	Volkswagen	805	803	2
15	17	Plymouth	691	688	3
17	18	GMC	594	260	334
19	19	Cadillac	531	531	0
20	20	Chrysler	503	503	0
18	21	Suzuki	468	452	16
21	22	BMW	304	304	0
23	23	Volvo	288	288	0
24	24	Mercedes	255	255	0
25	25	Audi	89	89	0
26	26	AMC	79	79	0
27	27	Porsche	74	74	0
...	...	Miscellaneous	437	271	166

Source: Hawaii Automobile Dealers Association, HADA Yearbook 1984-85.

Table 484.-- NEW PASSENGER CAR AND TRUCK SALES, BY COUNTIES: 1983

Type	State total	Honolulu	Maui	Hawaii	Kauai
Passenger cars ...	45,509	35,413	4,626	4,161	1,309
Trucks	6,614	5,617	311	378	308

Source: Hawaii Automobile Dealers' Association, HADA Yearbook 1983-84.

Table 485.-- HAWAII DRIVERS LICENSES IN FORCE: 1974 TO 1984

[As of December 31]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1974	509,236	409,977	43,907	20,815	34,537
1975	531,375	425,370	46,891	22,153	36,961
1976	541,180	429,559	49,184	22,662	39,775
1977	541,353	424,242	51,773	23,557	41,781
1978	541,263	420,005	54,504	24,381	43,373
1979	543,202	418,751	53,735	25,606	45,110
1980	541,842	411,102	57,780	26,333	46,627
1981	541,279	407,062	60,171	27,261	46,785
1982	561,345	419,468	63,610	28,446	49,821
1983	574,533	428,897	64,560	29,169	51,907
1984	582,218	434,053	65,778	28,801	53,586

Source: Hawaii State Department of Transportation, Motor Vehicle Safety Office, records.

Table 486.-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES: 1980 TO 1984

Year	Highway fuel consumption 1/		Vehicle miles of travel	
	Total (1,000 gallons)	Gallons per vehicle 2/	Total (millions)	Per vehicle 2/
1980	330,734	536	5,570.0	9,019
1981	319,588	492	5,855.7	9,018
1982	323,827	482	6,048.3	9,007
1983	327,769	(NA)	(NA)	(NA)
1984	339,491	473	6,486.3	9,044
COUNTIES: 1984				
Honolulu	242,775	465	4,616.1	8,846
Hawaii	43,933	534	805.5	9,791
Kauai	16,560	450	381.5	10,363
Maui	36,223	475	683.2	8,960

NA Not available.

1/ Includes gasoline, gasohol, diesel oil, and butane gas.

2/ Based on motor vehicle total by county of inspection; includes both taxable and nontaxable vehicles, and all military nonresident exempt vehicles. Data include passenger cars, buses, trucks, and motorcycles but exclude trailers and semi-trailers.

Source: Hawaii State Department of Transportation, Highways Division, annual releases and records.

Table 487.-- AVERAGE DAILY TRAFFIC VOLUMES AT SELECTED OAHU SURVEY SITES: 1980 TO 1984

[Based on average number of vehicles over a 24-hour period for both directions]

Site	1980	1981	1982	1983	1984
Pali Highway at tunnels	43,397	43,164	43,722	47,753	46,812
Likelike Highway at tunnels	41,264	40,792	45,057	44,644	43,840
H-1 Freeway at Manoa-Palolo Drainage Canal (includes ramps)	102,441	(NA)	104,500	101,817	110,712
H-1 Freeway at Kapalama Drainage Canal Bridge	186,955	157,733	152,487	174,308	164,969
Nimitz Highway at Kapalama Drainage Canal Bridge	64,431	66,318	60,425	(NA)	55,312
Kalanianaole Highway east of Ainakoa Ave. .	70,602	70,426	69,706	69,939	73,941

NA Not available.

Source: Hawaii State Department of Transportation, Highways Division, Planning Branch, records.

Table 488.-- HIGHWAY SPEEDS, BY TYPE OF HIGHWAY: 1978 TO 1983

[Years ended September 30]

Measurement and year	State-wide	Urban inter-state	Rural		
			Inter-state	Other arter-ials 1/	Major collec-tors 2/
AVERAGE SPEEDS (MILES PER HOUR)					
1978	(NA)	54.1	56.3	52.6	52.0
1979	(NA)	54.8	55.7	53.3	53.2
1980	(NA)	53.3	54.5	51.6	51.8
1981	53.0	54.0	55.1	51.1	52.8
1982	54.1	56.6	56.2	51.5	52.4
1983	54.0	56.7	56.5	51.6	51.8
1983					
Miles per hour:					
Average speed	54.0	56.7	56.5	51.6	51.8
Median speed	54.5	57.0	57.3	52.1	52.1
85th percentile speed	60.9	63.5	63.4	58.5	58.4
Percent exceeding --					
55 miles per hour	36.7	55.2	58.3	20.4	12.4
60 miles per hour	17.6	25.5	23.8	10.1	14.7
65 miles per hour	5.5	8.8	6.3	2.8	5.3

NA Not available.

1/ Data for 1978, 1979 and 1980 refer to multi-lane divided, except interstate. Data for 1981 and later years refer to principal and minor arterials, except interstate.

2/ Data for 1978, 1979 and 1980 refer to two-lane rural.

Source: U.S. Department of Transportation, Federal Highway Administration, Highway Statistics (annual).

Table 489.-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS: 1974 TO 1984

Year	Major traffic accidents 1/		Persons injured or killed	
	Total	Fatal	Injured only	Killed
1974	14,855	119	10,022	129
1975	13,895	130	10,554	146
1976	14,860	137	11,667	149
1977	16,188	139	12,245	154
1978	18,545	175	13,327	195
1979	19,158	183	13,963	205
1980	18,301	165	13,026	185
1981	16,582	136	11,999	150
1982	16,407	143	11,865	161
1983	16,372	131	11,852	139
1984	17,657	127	12,390	136
COUNTIES: 1984				
Honolulu	13,299	85	9,158	90
Hawaii	2,214	19	1,713	21
Kauai	782	8	480	9
Maui	1,362	15	1,039	16

1/ Traffic accidents with damage of $300 or more ($100 or more before July 1, 1974) or causing injury or death.

Source: Hawaii State Department of Transportation, Highways Division, Major Traffic Accidents, State of Hawaii (annual) and records.

Table 490.-- COMMUTING: 1980

Commuting characteristics	State total	Oahu	Other islands
MEANS OF TRANSPORTATION TO WORK			
Workers 16 years and over	457,717	369,523	88,194
Private vehicle	359,207	282,479	76,728
Drive alone: Car	225,767	179,823	45,944
Truck or van	27,401	15,904	11,497
Carpool: Car	93,203	78,997	14,206
Truck or van	12,836	7,755	5,081
Public transportation	38,100	37,042	1,058
Bus or streetcar	37,362	36,447	915
Subway or elevated train	32	32	-
Railroad	6	6	-
Taxicab	700	557	143
Bicycle	5,021	4,679	342
Motorcycle	2,979	2,740	239
Walked only	37,112	31,069	6,043
Other means	6,445	5,134	1,311
Worked at home	8,853	6,380	2,473
PRIVATE VEHICLE OCCUPANCY			
Workers 16 years and over using private vehicles	359,207	282,479	76,728
Drive alone	253,168	195,727	57,441
In 2-person carpool	72,188	59,311	12,877
In 3-person carpool	19,417	16,642	2,775
In 4-person carpool	7,828	6,373	1,455
In 5-or-more-person carpool	6,606	4,426	2,180
Persons per private vehicle	1.20	1.21	1.17
TRAVEL TIME TO WORK			
Workers 16 years and over who did not work at home	448,492	362,086	86,406
Less than 10 minutes	76,444	51,687	24,757
10 to 19 minutes	145,010	113,454	31,556
20 to 29 minutes	89,345	76,166	13,179
30 to 44 minutes	87,941	77,414	10,527
45 or more minutes	49,752	43,365	6,387
Mean minutes	21.5	22.6	17.2

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 65.

Table 491.-- AUTOMOTIVE RENTAL AND LEASING (WITHOUT DRIVERS) ESTABLISHMENTS, BY COUNTIES: 1982

[Limited to establishments with payroll]

Subject	State total	Honolulu	Hawaii	Kauai	Maui
Number of establishments ..	90	45	16	10	19
Receipts ($1,000)	137,954	80,805	15,112	11,081	30,956

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Hawaii, SC82-A-12 (September 1984), pp. 3, 13, 18, and 19.

Table 492.-- REGISTERED TAXIS AND BICYCLES, BY ISLANDS: 1983 AND 1984

[As of December 31]

Island	Taxicabs		Bicycles	
	1983	1984	1983	1984
State total	1,726	1,696	70,678	78,971
Hawaii	81	85	2,805	3,517
Maui	123	123	2,535	2,839
Lanai	2	2	152	168
Molokai	-	-	177	286
Oahu	1,467	1,430	62,842	68,125
Kauai	53	56	2,167	4,036
Niihau	-	-	-	-

Source: Compiled by the Hawaii State Department of Planning and Economic Development from the County Departments of Finance.

Table 493.-- STEAM RAILROAD MILEAGE AND PASSENGERS: 1979 TO 1984

[Data are for the Lahaina, Kaanapali and Pacific Rail Road, the only passenger railroad in the State]

Calendar year	Miles of track	Passengers
1979	6	103,206
1980	6	111,600
1981	6	125,640
1982	6	155,059
1983	6	172,352
1984	6	206,840

Source: Lahaina, Kaanapali and Pacific Rail Road, data submitted February 25, 1985.

Table 494.-- BUS PASSENGERS, BY FARE CATEGORY, FOR OAHU: 1982 TO 1984

[Calendar year data for City and County of Honolulu bus system]

Fare category	1982	1983	1984
All passengers	74,109,528	75,051,618	76,260,187
Adults, full fare	39,538,266	40,401,159	41,846,716
Students	15,967,924	15,037,474	13,548,302
School subsidy	235,927	284,620	342,857
Stadium express	18,828	16,370	20,320
Senior citizens and handicapped	9,632,807	11,606,059	14,381,117
Chartered service	9,259	5,718	8,930
Free transfers	8,706,517	7,700,218	6,111,945

Source: MTL, Inc., data provided by the City and County of Honolulu, Department of Transportation Services.

Table 495.-- BUS SERVICE, FOR OAHU: 1970 TO 1984

[Service provided by Honolulu Rapid Transit Co., Ltd., through December 31, 1970 and by City and County of Honolulu beginning March 1, 1971]

Year	Number of buses, Dec. 31	Bus mileage 1/	Passengers 2/
1970 3/	141	4,611,357	30,434,906
1971 4/	108	2,986,724	19,413,259
1972	143	4,964,044	31,031,764
1973	315	7,973,393	36,741,009
1974	333	11,670,774	50,519,626
1975	350	13,328,501	58,295,732
1976	350	15,547,127	64,585,334
1977	350	16,242,537	66,311,882
1978	350	15,991,798	67,746,396
1979	350	15,915,000	68,765,000
1980	400	16,579,392	71,601,744
1981	400	16,748,338	73,546,802
1982	400	16,767,816	74,109,528
1983	395	16,654,568	75,051,618
1984	440	16,774,564	76,260,187

1/ All categories of service through 1978 and revenue vehicle miles (estimated) thereafter. Calendar year data.

2/ All categories of service through 1978 and revenue passengers (including senior citizens and handicapped) as estimated thereafter. Calendar year data.

3/ Passenger total excludes 2,277,502 zone fares.

4/ Bus service by HRT was terminated by a strike that began January 1. The City and County of Honolulu commenced service March 1.

Source: MTL, Inc., data provided by the City and County of Honolulu, Department of Transportation Services.

Table 496.-- BUS REVENUES AND FARES, FOR OAHU: 1974 TO 1984

[Data for the City and County of Honolulu bus system]

Year	Revenues 1/ (dollars)	Cash fares, June 30 (cents)	
		Full	School
1974	6,807,147	25	10
1975	7,990,505	25	10
1976	9,007,134	25	10
1977	9,629,349	25	10
1978	9,686,876	25	10
1979	9,931,000	25	10
1980 2/	17,388,760	50	25
1981	17,991,735	50	25
1982	18,269,144	50	25
1983	18,157,876	50	25
1984 3/	18,819,783	60	25

1/ Fiscal years ending June 30 through 1979 and calendar years 1980 and thereafter.

2/ New fare structure, including a monthly pass program, effective November 1, 1979. Regular monthly passes cost $15.00; student passes $7.50.

3/ Fare change effective June 18, 1984. New rate, 60¢ cash/ride; Stadium Express, $1.50 cash/ride.

Source: Data from MTL, Inc., provided by the City and County of Honolulu, Department of Transportation Services.

Table 497.-- AIRPORTS AND HELIPORTS, BY CONTROL, BY ISLANDS: DECEMBER 31, 1983 AND 1984

Island	Airports 1/				Heliports 2/	
	State		Military	Semi-private	State: commercial	Semi-private
	Commercial	General aviation				
State total	8	6	6	3	1	9
Hawaii	3	1	1	1	-	4
Maui	1	1	-	1	-	2
Kahoolawe	-	-	-	-	-	-
Lanai	1	-	-	-	-	-
Molokai	1	1	-	-	-	-
Oahu	1	2	3	-	1	-
Kauai	1	1	1	1	-	3
Niihau	-	-	-	-	-	-
French Frigate Shoals	-	-	-	-	-	-
Kure Atoll	-	-	1	-	-	-

1/ Excludes private airports (not available). Changes between 1981 and 1983 reflect the reclassification of Hana and Kalaupapa Airports from commercial to general aviation and the abandonment of the French Frigate Shoals airstrip.

2/ Excludes military and private heliports (not available).

Source: Hawaii State Department of Transportation, Airports Division, information provided January 9, 1984 and January 23, 1985.

Table 498.-- AIRCRAFT OPERATIONS FOR SPECIFIED AIRPORTS: 1974 TO 1984

[An aircraft operation is an aircraft arrival or departure]

Year	Honolulu International Airport	General Lyman Field, Hilo	Keahole Airport	Kahului Airport	Lihue Airport
1974	305,724	47,715	40,759	74,883	50,821
1975	319,776	51,145	40,622-	77,062	53,356
1976	320,565	52,982	58,425	90,455	58,865
1977	329,926	60,377	83,616	100,655	65,636
1978	379,106	52,677	91,033	125,291	74,583
1979	412,739	51,703	92,235	127,477	71,033
1980	375,408	49,969	66,944	111,573	62,829
1981	339,359	53,274	57,488	102,760	59,404
1982	308,728	47,964	51,889	112,428	65,305
1983	333,038	54,470	66,581	124,288	71,739
1984	343,818	62,543	83,320	142,311	100,992

Source: Hawaii State Department of Transportation, Airports Division, Airport Statistics for 1983, Statewide Airport System (April 1984), and records.

Table 499.-- AIRCRAFT OPERATIONS, BY TYPE OF AIRCRAFT, AT MAJOR STATE OWNED AIRPORTS: 1984

Airport	All movements	Air carrier	Air taxi	General aviation	Military
Honolulu International ..	343,818	154,121	75,445	82,961	31,291
Gen. Lyman	62,543	14,165	7,455	18,335	22,588
Kahului	142,311	67,230	37,128	26,333	11,620
Lihue	100,992	21,848	67,403	9,692	2,049
Keahole	83,320	17,033	29,569	19,528	17,190
Molokai	53,513	5,000	34,533	10,429	3,551

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 500.-- U.S. ACTIVE CIVIL AIRCRAFT AND GENERAL AVIATION HOURS FLOWN: 1978 TO 1983

Year	U.S. active civil aircraft, Dec.			Hours flown by general aviation aircraft 1/	
	Air carrier 2/	General aviation 1/			
		Number	Standard error	Number (1,000)	Standard error (1,000)
1978	18	475	262	202	128
1979	19	530	130	255	76
1980	17	385	123	157	66
1981	18	623	181	288	131
1982	20	426	158	86	34
1983	21	381	152	97	34

1/ For aircraft based in Hawaii. Data based on samples with specified standard errors.

2/ Aloha and Hawaiian.

Source: Federal Aviation Administration, FAA Statistical Handbook of Aviation (annual), and records.

Table 501.-- ACTIVE PILOTS, FLIGHT INSTRUCTORS, AND NONPILOT AIRMEN: 1981 TO 1983

[As of December 31]

Year	Active pilots	Active flight instructors	Active nonpilot airmen 1/
1981	3,532	276	2,965
1982	3,327	291	3,118
1983	3,224	260	3,099

1/ Mechanics, parachute riggers, ground instructors, dispatchers, control tower operators, flight navigators, and flight engineers.

Source: Federal Aviation Administration, FAA Statistical Handbook of Aviation (annual).

Table 502.-- TRANSPACIFIC AND INTERISLAND AIR CARRIERS SERVING HAWAII: 1984 AND 1985

[As of June 30. Includes both scheduled and nonscheduled services; excludes commuter lines and other air taxi service]

Service	1984	1985
All air carriers 1/	31	32
Transpacific	29	30
Domestic	16	17
Foreign	13	13
Interisland	4	4
Passenger carriers	3	3
Cargo and mail only	1	1

1/ Unduplicated totals. Two carriers provided both transpacific and interisland service in 1984 and 1985.

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 503.-- AIR CARGO AND AIRMAIL: 1979 TO 1984

[In thousands of pounds]

Calendar year	Overseas air cargo		Overseas airmail		Interisland	
	Out-going	In-coming	Out-going	In-coming	Air cargo: incoming	Airmail: incoming
1979	121,702	121,205	17,497	17,577	118,555	15,364
1980	130,586	114,673	21,105	19,581	138,008	13,576
1981	151,513	101,301	22,388	19,887	132,559	14,131
1982	155,278	105,388	21,280	25,006	114,038	15,014
1983	174,582	136,354	23,620	28,288	109,828	16,024
1984	196,215	153,654	23,356	29,497	111,472	16,282

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 504.-- TRANSPACIFIC AND INTERISLAND AIR PASSENGER MOVEMENTS: 1970 TO 1984

[Calendar years. Data include both revenue and non-revenue passengers]

Year	Transpacific passengers			Inter-island passenger arrivals 1/
	Arrivals	Departures	Through	
1970 ..	2,190,809	2,158,577	893,890	2,992,777
1971 ..	2,296,119	2,304,570	729,237	3,380,031
1972 ..	2,540,472	2,550,199	733,362	4,093,338
1973 ..	2,866,003	2,913,446	870,378	4,809,097
1974 ..	3,009,769	2,964,992	885,122	5,174,914
1975 ..	3,181,580	3,134,774	956,576	5,321,616
1976 ..	3,496,645	3,432,908	816,915	5,873,138
1977 ..	3,667,756	3,615,717	714,150	6,413,847
1978 ..	4,131,466	4,054,544	854,276	7,341,815
1979 ..	4,245,032	4,148,645	971,452	7,578,877
1980 ..	4,270,633	4,174,739	1,118,987	6,737,894
1981 ..	4,290,752	4,292,159	1,032,264	6,724,113
1982 ..	4,669,747	4,641,716	882,832	7,327,447
1983 ..	4,760,459	4,714,689	777,490	7,037,687
1984 ..	5,263,213	5,261,373	727,947	7,632,239

1/ Air taxi service was seriously underreported before 1977.

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 505.-- CHARACTERISTICS OF INTRA-HAWAII CERTIFICATED ROUTE AIRLINES: 1983 AND 1984

[Data for Aloha Airlines, Inc., Hawaiian Airlines, Inc., and Mid Pacific Airlines, Inc. Mid Pacific was certificated in 1983]

Subject	1983 1/	1984
Number of airlines	3	3
Aircraft revenue departures 2/ (1,000)	105.6	119.5
Aircraft revenue miles 2/ (1,000)	12,626	14,118
Average airborne speed 2/ (miles per hour)	258	253
Average available seats per aircraft mile flown 2/	108.3	102.7
Revenue passengers: 2/		
Enplanements (1,000)	6,074	6,677
Load factor (percent)	57.6	59.7
Revenue ton-miles (1,000): 3/		
Freight	1,712	2,591
Mail	985	898
Number of employees 4/	1,615	1,810
Operating revenues 5/ ($1,000)	210,090	223,250
Operating profit or loss 5/ ($1,000)	10,014	3,782
Average passenger revenues per revenue passenger-mile 6/ (cents)	24.7	22.5
Average freight revenues per revenue ton-mile 6/ (dollars)	3.17	2.64

1/ Revised from *Data Book 1984*, table 545.

2/ Scheduled service only; includes Mid Pacific.

3/ Scheduled service only; excludes Mid Pacific.

4/ Weighted average for year; excludes Mid Pacific.

5/ Includes Mid Pacific for 1983 only; for 1984 includes operations beyond Hawaii.

6/ Excludes Mid Pacific.

Source: U.S. Department of Transportation, Research and Special Programs Administration, Office of Aviation Information Management, data provided May 6, 1985. Aloha Airlines, Inc. and Hawaiian Airlines, Inc. from Department of Transportation (DOT) Form 41. Mid Pacific Airlines, Inc. traffic data from DOT Form 298C; MPA financial data for 1983 from "Moody's Transportation" dated August 31, 1984 (No financial data available from any source at this date for calendar year 1984).

Table 506.-- PASSENGERS, CARGO, AND MAIL, BY AIRPORT: 1984

Airport	Passengers 1/		Cargo (tons)		Mail (tons)	
	Enplaned	Deplaned	Enplaned	Deplaned	Enplaned	Deplaned
OVERSEAS						
Total	5,261,373	5,263,213	98,107	76,928	11,678	14,749
Honolulu	4,939,652	4,916,332	92,759	74,151	11,263	14,748
General Lyman ...	18,983	18,388	4,443	1,539	337	0
Kahului	241,232	239,639	404	485	50	1
Keahole	53,700	75,902	492	636	28	0
Lihue	7,806	12,952	9	117	0	0
INTERISLAND						
Total	7,632,239	7,632,239	55,736	55,736	8,141	8,141
Honolulu	3,339,498	3,364,191	36,346	16,362	4,861	3,243
General Lyman ...	484,769	539,142	9,799	8,640	1,139	1,268
Upolu	1,186	1,230	0	0	0	0
Waimea-Kohala ...	4,602	4,767	100	173	0	0
Keahole	687,288	610,542	2,825	3,777	459	914
Kahului	1,796,714	1,799,911	3,736	17,674	1,085	1,768
Hana	9,682	9,219	0	11	0	0
Kaanapali	64,332	63,360	0	0	0	0
Molokai	135,665	136,678	157	349	51	24
Kalaupapa	3,942	3,961	2	48	0	0
Lanai	24,430	24,344	4	106	5	0
Lihue	1,065,139	1,059,684	2,767	8,584	541	924
Other airports ..	14,992	15,210	0	12	0	0

1/ Revenue and non-revenue, excluding Military Airlift Command (MAC). Also excludes overseas passengers in transit (727,947, all through Honolulu International Airport).

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 507.-- AIRLINE PASSENGER ORIGINS AND DESTINATIONS: 1984

[Year ended December 31, 1984. Top city pairs originating or terminating passengers and revenue passenger-miles, ranked by passengers. Data limited to domestic operations in scheduled service. Figures are combined totals in both directions]

City pair in both directions 1/ (in order of passenger rank)	Inter-city distance (miles)	Passengers		Passenger-miles	
		U.S. rank	Number (1,000)	U.S. rank	Number (1,000)
Honolulu-Kahului	100	14	1,284	297	128,847
Honolulu-Los Angeles	2,566	17	1,109	3	2,854,375
Honolulu-Lihue	102	28	862	428	91,159
Honolulu-Hilo	216	42	624	280	136,128
Honolulu-San Francisco	2,398	44	622	9	1,505,835
Honolulu-Kona	169	59	518	430	90,891
Honolulu-New York	4,983	136	288	10	1,444,995
Honolulu-Chicago	4,251	211	193	24	828,379
Honolulu-Seattle	2,677	235	179	52	506,020
Kahului-Los Angeles	2,486	248	169	66	431,882
Honolulu-Minneapolis	3,972	444	92	81	375,752
Honolulu-Dallas-Fort Worth	3,785	471	88	90	338,693
Honolulu-Boston	5,095	514	80	69	411,732
Honolulu-Washington, D.C.	4,840	545	75	84	368,446
Honolulu-Philadelphia	4,919	596	68	91	337,080

1/ Includes all cities in Hawaii included in top 100 U.S. city pairs, as ranked either by number of passengers or number of passenger-miles.

Source: U.S. Department of Transportation, Research and Special Programs Administration, Domestic Origin-Destination Survey of Airline Passenger Traffic, December 31, 1984, table 6.

Table 508.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR FLIGHTS BY UNITED AIRLINES BETWEEN SAN FRANCISCO AND HONOLULU: 1980 TO 1985

[Correct to September 9, 1985]

Effective date of change in fare		Regular one-way fares, including taxes (dollars)			Flight time 1/ (hours, min.)
		First class	Coach, weekend	Coach weekday	
1980:	Jan. 1	302.12	209.08	199.08	5:02
	June 1	319.13	221.09	211.08	5:02
	Aug. 1	351.14	243.10	233.09	5:02
	Oct. 1	365.11	252.08	252.08	5:02
1981:	Jan. 20 ...	384.12	265.08	265.08	5:02
	Mar. 31 ...	415.12	286.09	286.09	5:02
	June 17 ...	425.13	296.09	296.09	5:02
	Oct. 1	392.12	280.08	280.08	5:00
1982:	Mar. 1	412.12	219.07	219.07	5:00
	Apr. 1	412.12	310.09	310.09	5:00
	June 1	412.12	328.10	328.10	5:00
	Sept. 1 ...	415.16	331.13	331.13	5:00
1983:	June 15 ...	415.16	353.14	353.14	5:00
1984:	Sept.	415.00	353.14	353.14	5:00
	Oct.	415.00	353.00	353.00	5:05
	Dec.	454.00	364.00	364.00	5:05

1/ Average scheduled flight time eastbound and westbound, by B-747 or DC-10 aircraft.

Source: United Airlines, records.

Table 509.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR SPECIFIED INTERISLAND FLIGHTS BY HAWAIIAN AIRLINES, BY TYPE OF AIRCRAFT: 1981 TO 1985

Effective date of change in fare	Honolulu-Lihue		Honolulu-Kahului		Honolulu-Hilo	
	DC-9 1/	DASH-7	DC-9 1/	DASH-7	DC-9 1/	DASH-7
FARES 2/						
1981: Jan. 1	47.00	...	47.00	...	59.00	...
March 1	49.00	...	49.00	...	61.00	...
April 26 ...	49.00	49.00	49.00	49.00	61.00	61.00
May 1	51.00	51.00	51.00	51.00	63.00	63.00
Oct. 15	43.00	43.00	43.00	43.00	53.00	53.00
1982: May 1	46.00	46.00	46.00	46.00	56.00	56.00
June 1	48.00	48.00	48.00	48.00	58.00	58.00
Aug. 1	53.00	53.00	53.00	53.00	63.00	63.00
Sept. 1	54.50	54.50	54.50	54.50	65.00	65.00
1983: Feb. 1	45.00	45.00	45.00	45.00	45.00	45.00
July 1	49.95	49.95	49.95	49.95	49.95	49.95
Oct. 30	49.95	29.95	49.95	29.95	49.95	29.95
Dec. 16	49.95	41.95	49.95	41.95	49.95	41.95
Dec. 22	49.95	33.95	49.95	33.95	49.95	33.95
1984: Jan. 20	49.95	41.95	49.95	41.95	49.95	41.95
May 28	49.95	43.95	49.95	43.95	49.95	43.95
Nov. 15	52.95	46.95	52.95	46.95	52.95	46.95
Dec. 16	52.95	37.95	52.95	37.95	52.95	37.95
1985: Jan. 7	52.95	34.95	52.95	34.95	52.95	34.95
Mar. 11	52.95	36.95	52.95	36.95	52.95	36.95
Apr. 28	52.95	38.95	52.95	38.95	52.95	38.95
July 1	44.95	37.95	44.95	37.95	44.95	37.95
Aug. 1	46.95	38.95	46.95	38.95	46.95	38.95
FLIGHT TIMES 3/						
1981-1984	26	34	27	34	40	60
1985	25	33	26	33	40	58

1/ DC-9-50, through May 1981; DC-9-80 thereafter.

2/ Total regular one-way fare, including taxes and other charges, in dollars.

3/ Average non-stop scheduled flight time eastbound and westbound, in minutes.

Source: Hawaiian Airlines, records.

Table 510.-- STATE COMMERCIAL HARBORS: 1985

Island and harbor	Harbor entrance depth (feet)	Harbor basin			Piers (linear feet)	Storage area (1,000 square feet)	
		Depth (feet)	Length (feet)	Width (feet)		Shedded	Open
Hawaii:							
Hilo	35	35	2,300	1,400	2,787	122	446
Kawaihae	40	35	1,500	1,450	1,012	23	166
Maui:							
Kahului	35	35	2,400	2,050	2,749	124	586
Molokai:							
Kaunakakai	23	23	1,500	600	691	10	123
Oahu:							
Honolulu:							
Main	45	40	3,300	1,520	26,363	1,873	7,215
Kapalama		40	3,400	1,000			
Kauai:							
Nawiliwili	40	35	1,950	1,540	1,216	66	247
Port Allen	35	35	1,500	1,200	1,200	35	32

Source: Hawaii State Department of Transportation, Harbors Division, unpublished data, November 7, 1985.

Table 511.-- DOCUMENTED AND NUMBERED VESSELS REGISTERED IN HAWAII: 1970 TO 1985

Year	Documented vessels 1/		Numbered vessels 2/	
	Date	Number	Date	Number
1970	June 30	553	Dec. 31	8,042
1971	June 30	597	Dec. 31	8,803
1972	June 30	621	Dec. 31	10,250
1973	June 30	692	Dec. 31	12,049
1974	Aug. 22	707	Dec. 31	11,843
1975	Sept. 1	797	Dec. 31	12,956
1976	Dec.	802	Dec. 31	13,130
1977	Dec. 7	924	Dec. 31	13,165
1978	Dec. 31	987	Dec. 31	13,695
1979	Dec. 31	996	Dec. 31	13,678
1980	Dec. 31	1,143	Dec. 31	13,459
1981	June 30	1,141	Dec. 31	13,405
1982	June 30	1,225	Dec. 31	12,999
1983	June 30	1,300	Dec. 31	12,604
1984	June	1,203	Dec. 31	13,122
1985	June 30	1,306	...	...

1/ Vessels documented under the laws of the United States with the U.S. Coast Guard in Hawaii. All vessels over five net tons, used for commercial purposes, must be documented. In addition, yachts over five net tons may be documented. The data for 1982 and 1983 are Coast Guard estimates.

2/ Non-documented numbered vessels registered with the Hawaii State Department of Transportation. Any mechanically propelled boat (including those with auxiliary engines), and any boat powered solely by sail if over eight feet in length, must be numbered.

Source: U.S. Coast Guard, Marine Safety Office, records; Hawaii State Department of Transportation, Report of Undocumented Vessel Registration (annual).

Table 512.-- UNDOCUMENTED STATE-REGISTERED VESSELS: DECEMBER 31, 1984

Subject	Number	Subject	Number
Certificates outstanding .	13,122	Type of vessel:	
		Cabin motorboat	1,873
Length:		Open motorboat	4,912
Under 16 feet	5,165	Runabout	2,831
16 to less than 26 feet	6,597	Sail/inboard	568
26 to less than 40 feet	1,150	Sail/outboard	693
40 to 65 feet	200	Sail only	1,283
Over 65 feet	10	Motor vessel over 65 feet .	10
Median (feet)	18.1	Other	952
Hull materials:		Uses:	
Wood	1,919	Pleasure	11,273
Steel	31	Commercial fishing	1,171
Aluminum	429	Charter fishing	12
Plastic	10,054	Commercial passenger	140
Other	689	Other commercial	58
		Livery	180
Propulsion:		Dealer or manufacturer	7
Inboard	880	Youth group	22
Outboard	7,419	Government	198
Inboard/outboard	1,978	Other	61
Sail/inboard	584		
Sail/outboard	609	Island kept:	
Sail only	1,309	Hawaii	1,633
Other	343	Kauai	983
		Lanai	50
Type of storage:		Maui	1,109
On water	2,595	Molokai	189
On land	10,527	Oahu	9,158

Source: Hawaii State Department of Transportation, Harbors Division, Report of Undocumented Vessel Registration (annual).

Table 513.-- BOATING ACCIDENTS: 1983 AND 1984

Year	Number of accidents		Number of persons		Number of vessels involved	Amount of damage ($1,000)
	Total	Fatal	Killed	Injured non-fatally		
1983	41	2	3	15	51	253.6
1984	42	6	8	9	52	304.8

Source: U.S. Department of Transportation, Coast Guard, Boating Statistics (annual).

Table 514.-- SHIP ARRIVALS AT THE PORT OF HONOLULU: 1974 TO 1984

[Years ended June 30]

Year	Overseas vessels		Interisland vessels	
	Number	Gross tonnage	Number	Gross tonnage
1974	1,587	13,465,620	3,666	2,879,354
1975	1,602	13,025,705	3,440	2,411,933
1976	1,386	11,700,000	2,733	2,064,320
1977	1,589	12,568,896	2,700	2,249,446
1978	1,651	12,676,469	1,981	1,947,893
1979	1,757	12,101,936	2,875	2,838,609
1980	1,963	10,483,989	2,338	2,572,778
1981	1,968	10,959,161	2,597	2,670,405
1982	1,943	9,604,985	2,496	2,598,632
1983	1,775	10,406,544	2,662	2,623,321
1984	1,686	10,397,905	2,660	3,649,085

Source: Hawaii State Department of Transportation, Harbors Division, unpublished data, November 7, 1985.

Table 515.-- VESSELS ARRIVING AT SPECIFIED HARBORS: 1983

[Excludes domestic fishing craft]

Harbor	Total inbound vessels	By type of vessel		
		Self propelled vessels		
		Passenger and dry cargo	Tanker	Towboat or tugboat
Hilo	846	98	7	305
Kawaihae	398	9	4	165
Kahului	1,110	81	9	411
Kaumalapau	1,472	794	-	355
Kaunakakai	796	-	-	375
Kalaupapa	8	-	-	4
Honolulu	6,946	2,876	51	1,981
Barbers Point	457	3	97	315
Nawiliwili	552	62	1	156
Port Allen	47	-	-	26

Harbor	By type of vessel -- con.		By draft	
	Non-self propelled vessels			
	Dry cargo	Tanker	18 feet and less	19 feet and more
Hilo	374	62	809	37
Kawaihae	213	7	385	13
Kahului	525	84	1,008	102
Kaumalapau	323	-	1,472	-
Kaunakakai	412	9	(1/)	(1/)
Kalaupapa	4	-	8	-
Honolulu	1,830	208	6,276	670
Barbers Point	-	42	364	93
Nawiliwili	310	23	538	14
Port Allen	17	4	47	-

1/ Not available. All vessels were 22 feet and less.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1983, Part 4 (1985), pp. 98-99.

Table 516.-- TRANSPACIFIC AND INTERISLAND SURFACE REVENUE PASSENGERS: 1979 TO 1984

Year	Transpacific passengers 1/			Inter-island passenger arrivals 2/
	Disembarking	Embarking	Intransit	
1979	551	318	11,536	-
1980	399	353	11,421	15,763
1981	614	510	9,847	33,108
1982	542	461	6,785	39,057
1983	741	740	8,419	56,073
1984	726	361	6,692	78,443

1/ Data refer to years ended June 30 through 1983 and calendar years thereafter. Data limited to the Port of Honolulu.

2/ Calendar year statistics. Interisland cruise ship service was begun June 21, 1980. Data exclude interisland travel by transpacific cruise ships.

Source: Transpacific passengers from TheoDavies Marine Agencies, Inc., records; interisland passengers from American Hawaii Cruises, records.

Table 517.-- OVERSEAS AND INTERISLAND SHIPPING: 1978 TO 1983

[In short tons]

Calendar year	Overseas cargo			Interisland cargo		
	Total	In	Out	Total	In	Out
1978 ...	12,279,219	9,089,931	3,189,288	6,547,820	3,274,080	3,273,740
1979 ...	11,823,885	9,255,026	2,568,859	5,631,539	2,917,854	2,713,685
1980 ...	11,666,648	9,395,453	2,271,195	5,745,346	2,965,962	2,779,384
1981 ...	11,683,330	9,389,458	2,293,872	7,230,395	3,691,297	3,539,098
1982 ...	10,503,229	8,168,339	2,334,890	7,204,456	3,697,785	3,506,671
1983 ...	11,853,502	9,371,317	2,482,185	8,337,860	4,285,416	4,052,444

Source: Hawaii State Department of Transportation, Harbors Division, estimates based on data in U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States (annual), and printouts.

Table 518.-- FREIGHT AND PASSENGER TRAFFIC FOR SPECIFIED HARBORS: 1973 TO 1983

Subject and year	Hilo	Kawaihae	Kahului	Honolulu 1/	Barbers Point	Nawiliwili
FREIGHT TRAFFIC 2/ (SHORT TONS)						
1973	1,041,647	385,850	1,042,818	8,188,466	3,944,857	495,448
1974	928,619	291,036	982,110	7,556,891	4,360,221	380,495
1975	1,053,879	279,687	1,109,485	7,935,183	5,185,659	532,978
1976	995,544	263,562	1,276,424	7,189,538	6,593,497	460,900
1977	1,013,430	318,197	1,301,095	6,881,556	6,630,994	557,798
1978	1,272,734	502,451	1,922,112	7,750,537	6,306,580	765,877
1979	1,220,438	447,521	1,473,307	7,463,663	6,154,541	757,899
1980	1,102,019	518,116	1,441,524	7,646,270	5,725,722	785,212
1981	1,441,590	432,704	1,551,944	8,269,671	5,589,741	906,595
1982	1,381,996	441,130	1,483,955	7,593,097	5,707,386	808,153
1983	1,522,442	441,458	1,842,568	8,039,850	7,051,230	1,008,699
PASSENGERS 3/						
1973	-	-	-	989,100	-	-
1974	9,600	-	9,600	987,475	-	-
1975	13,613	-	11,296	1,073,125	-	13,934
1976	1,313	-	1,307	1,390,524	-	40,674
1977	8,381	-	8,390	303,291	3,504	70,063
1978	3,207	-	3,879	183,721	4,441	6,384
1979	-	-	-	311,899	-	-
1980	-	-	-	547,242	-	-
1981	-	-	-	521,624	-	-
1982	-	-	-	465,466	-	-
1983	-	-	-	688,689	-	-

1/ For discussion of the accuracy of these data, see the Data Book 1982, table 441.

2/ Excludes cargo carried by Army and Navy vessels and cargo in transit.

3/ Total arrivals and departures for transpacific, interisland, and local travel.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1983, Part 4 (1985), pp. 29-34.

Table 519.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1982

[In short tons. Commodities under 200,000 tons not shown separately]

Harbor and commodity	Total	Foreign		Interstate 1/		Interisland 1/		Internal receipts
		Imports	Exports	Receipts	Shipments	Receipts	Shipments	
Hilo	1,381,996	19,027	19,033	48,672	221,135	771,644	301,962	523
Sugar	214,689	-	-	-	214,666	23	-	-
Fabricated metal products	302,358	-	-	-	-	179,079	123,279	50
Kawaihae	441,130	-	-	3,767	130,114	200,317	106,882	83
Kahului	1,483,955	16,936	10,477	14,885	188,158	862,466	390,950	-
Fabricated metal products	327,980	-	-	324	-	221,044	106,612	-
Honolulu	7,593,097	870,710	179,650	2,031,300	848,012	1,295,086	2,368,207	132
Fresh fruits	375,584	1,206	1,185	16,721	80,417	274,697	1,358	-
Crude petroleum	520,657	520,657	-	-	-	-	-	-
Prep. fruit, veg. juice .	420,059	3,136	6,272	8,340	280,131	120,930	1,250	-
Molasses	336,554	-	7,165	-	192,559	136,830	-	-
Gasoline	260,756	27,902	9,063	34,296	26,749	-	162,746	-
Distillate fuel oil	391,615	-	40,204	46,988	-	-	304,423	-
Residual fuel oil	272,975	610	50,038	16,291	2,484	-	203,552	-
Fabricated metal products	986,218	6,311	1,298	33,730	555	332,037	612,287	-
Motor vehicles, parts, equipment	425,285	29,041	456	53,473	22,494	116,069	203,752	-
Barbers Point	5,707,386	2,349,792	368,854	2,772,009	182,643	-	34,088	-
Crude petroleum	4,283,466	2,295,488	-	1,987,978	-	-	-	-
Gasoline	217,020	54,292	83,542	-	79,186	-	-	-
Residual fuel oil	1,023,770	-	232,119	710,720	67,896	13,035	-	-
Nawiliwili	808,153	22,102	-	19,139	186,814	384,551	195,428	119
Fabricated metal products	205,793	-	-	3	-	127,060	78,730	-

Continued on next page.

Table 519.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1982 -- Con.

Harbor and commodity	Total	Foreign		Interstate 1/		Interisland 1/		Internal receipts
		Imports	Exports	Receipts	Shipments	Receipts	Shipments	
Pearl Harbor	(NA)	(NA)	(NA)	-	-	16,637	42,885	(NA)
Hana	11	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Kaumalapau	264,165	(NA)	(NA)	-	-	50,735	213,423	(NA)
Fresh fruits	212,783	-	-	-	-	90	212,693	-
Kaunakakai	221,003	(NA)	(NA)	-	-	111,839	109,154	(NA)
Kalaupapa	1,412	-	-	-	-	1,167	245	-
Port Allen	71,913	(NA)	(NA)	-	-	71,882	-	(NA)

NA Not available.

1/ Interstate and interisland (or intrastate) data are combined in the coastwise totals shown in the published reports.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1982, Part 4 (July 1984), pp. 30-37, and unpublished printouts.

Table 520.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1983

[In short tons]

Harbor and commodity 1/	Total	Foreign		Interstate 2/		Interisland 2/		Internal receipts	Local
		Imports	Exports	Receipts	Ship-ments	Receipts	Ship-ments		
Hilo	1,522,442	10,107	34,871	26,231	197,314	867,704	385,958	257	-
Sugar	205,893	-	-	-	183,433	4	22,456	-	-
Fabricated metal products	367,001	-	-	-	-	197,857	169,144	-	-
Kawaihae	441,458	7,172	11,019	362	152,713	166,467	103,671	54	-
Kahului	1,842,568	25,083	48,834	8,655	259,348	1,023,210	477,407	31	-
Sugar	257,949	-	5	-	254,413	-	3,531	-	-
Fabricated metal products	383,785	-	-	-	-	244,009	139,776	-	-
Barbers Point	7,051,230	3,525,590	366,972	2,836,068	228,987	-	93,613	-	-
Crude petroleum	5,439,032	3,515,870	-	1,923,162	-	-	-	-	-
Residual fuel oil	1,318,978	-	275,491	829,105	174,601	-	39,781	-	-
Honolulu	8,039,850	695,389	109,404	2,208,079	830,495	1,537,355	2,658,781	166	181
Fresh fruits	417,017	1,079	1,444	19,924	78,906	313,616	2,048	-	-
Prep. fruit/veg. juice, nec.	407,922	2,199	7,015	8,320	263,364	125,720	1,304	-	
Molasses	352,616	-	-	-	214,168	138,364	84	-	-
Miscellaneous food products	222,329	5,631	2,759	29,147	2,894	98,917	82,981	-	-
Gasoline	220,855	-	-	32,945	16,312	-	171,598	-	-
Jet fuel	296,804	122,887	-	164,594	-	-	9,323	-	-
Distillate fuel oil	415,855	22,630	23,216	6,944	-	7,732	355,152	-	181
Residual fuel oil	339,080	63,373	6,274	1	4,140	21,162	244,130	-	-
Fabricated metal products	1,155,576	7,050	665	50,480	227	434,042	663,112	-	-
Motor vehicles, parts, equip.	505,532	32,582	195	66,346	23,065	108,969	274,375	-	-
Commodities, nec.	812,771	821	11	421,411	25,574	45,869	319,085	-	-
Nawiliwili	1,008,699	20,965	5,000	7,616	237,228	506,306	231,512	72	-
Sugar	260,307	-	-	-	237,228	20,546	2,533	-	-
Fabricated metal products	292,590	-	-	-	-	170,295	122,295	-	-

Continued on next page.

Table 520.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1983 -- Con.

Harbor and commodity 1/	Total	Foreign		Interstate 2/		Interisland 2/		Internal receipts	Local
		Imports	Exports	Receipts	Ship-ments	Receipts	Ship-ments		
Hana	12	(NA)	(NA)	-	-	-	-	(NA)	-
Kalaupapa	1,047	-	-	-	-	802	245	-	-
Kaunakakai	208,116	(NA)	(NA)	-	-	106,599	101,502	(NA)	-
Port Allen	77,820	(NA)	(NA)	-	-	77,775	-	(NA)	-
Kaumalapau	307,657	(NA)	(NA)	-	-	55,388	252,261	(NA)	-
Fresh fruits	251,544	-	-	-	-	98	251,446	-	-
Pearl Harbor	(NA)	(NA)	(NA)	73,739	-	11,844	36,473	(NA)	-

NA Not available.

1/ Commodities under 200,000 tons are not shown separately.

2/ Interstate and interisland (or intrastate) data are combined in the coastwise totals shown in the published reports.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1983, Part 4 (1985), pp. 29-35, and unpublished printouts.

AGRICULTURE

This section presents statistics on agricultural land, farms, crops, livestock, dairy products, poultry, and aquaculture. Related information appears in Sections 6 (on land use), 12 and 15 (agricultural employment and earnings), and 22 (food processing).

There were 4,596 farms in Hawaii as of 1982, with a total area of 1.96 million acres. The value of crop sales in 1984 was $467 million, or 10 percent lower than the total for 1974. Livestock sales amounted to $87 million, or 50 percent more than the 1974 level. Combined crop and livestock sales in 1984 ranged from $64 million in Kauai County to $185 million on the Big Island. Major crops were sugar ($256 million in sales, down 42 percent over the decade), pineapple ($90 million, or 123 percent over the 1974 total), flowers and nursery products ($43 million, or 423 percent more than in 1974), vegetables and melons ($26 million, up 164 percent), and macadamia nuts ($26 million, up 398 percent). Diversified crops, defined as all crops other than sugar and pineapple, rose from $35 million in 1974 to $121 million in 1984, or approximately 245 percent. About 670 farms sold $43 million of flowers and nursery products in 1984, chiefly anthuriums, potted foliage, and orchids. Important products of livestock farms as of 1984 included cattle ($28 million in sales), milk ($29 million), and eggs ($16 million). In 1984, Hawaii produced 41 percent of the fresh market vegetables consumed locally, 30 percent of the fresh market fruits, 31 percent of the beef and veal, 21 percent of the chickens, none of the rice, and 78 percent of the eggs.

Aquaculture has been growing in importance in recent years. Freshwater prawn production amounted to 318,000 pounds in 1984, with a value of more than $1.7 million. Ten years earlier the corresponding figures had been only 11,000 pounds and $38,000.

Statistics on Hawaiian agriculture exclude pakalōlō (marijuana) and other illicit plants. Authorities confiscated $47 million worth of marijuana in 1984, but the proportion escaping detection is unknown.

Important sources for data on agriculture include the United States Census of Agriculture, most recently conducted as of 1982, the annual report on Statistics of Hawaiian Agriculture issued by the Hawaii Agricultural Reporting Service, and data compiled by the Hawaiian Sugar Planters' Association and the Aquaculture Development Program of the Department of Land and Natural Resources. Agricultural data for earlier years are summarized in Historical Statistics of Hawaii, Section 13. National statistics appear in Section 24 of the Statistical Abstract of the United States: 1985.

Table 521.-- FARMS, LAND IN FARMS, AND LAND USE: 1982 AND 1978

Subject	1982	1978
Farms ... number	4,595	4,310
Land in farms ... acres	1,957,501	1,988,282
Average size of farm ... acres	426	461
Value of land and buildings:		
Average per farm ... dollars	778,471	413,948
Average per acres ... dollars	1,826	897
Farms by size:		
1 to 9 acres	2,743	2,527
10 to 49 acres	1,261	1,211
50 to 179 acres	320	296
180 to 499 acres	126	146
500 to 999 acres	33	24
1,000 to 1,999 acres	33	32
2,000 acres or more	79	74
Land in farms according to use:		
Total cropland ... farms	3,836	3,565
acres	346,113	333,262
Harvested cropland ... farms	3,538	3,299
acres	155,960	158,639
Cropland used only for pasture or grazing ... farms	400	272
acres	33,557	27,191
Other cropland ... farms	855	1,089
acres	156,596	147,432
Woodland, including woodland pastured ... farms	148	146
acres	117,270	145,802
Pastureland and rangeland other than cropland and woodland pastured ... farms	743	611
acres	1,132,849	1,143,095
Land in house lots, ponds, roads, wasteland, etc. ... farms	2,227	1,859
acres	361,269	366,123
Irrigated land ... farms	1,544	1,493
acres	145,982	159,323

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data, AC82-A-11 (September 1984), Chapter 1, tables 1 and 4.

Table 522.-- FARM SALES AND INCOME: 1982 AND 1978

Subject		1982	1978
Market value of agricultural products sold	$1,000	558,608	419,251
Average per farm	dollars	121,569	97,274
Crops, including nursery and greenhouse products	$1,000	456,069	331,020
Grains	$1,000	3,392	1,397
Hay, silage, and field seeds	$1,000	(D)	450
Vegetables, sweet corn, and melons	$1,000	18,703	15,337
Fruits, nuts, and berries	$1,000	113,819	73,505
Nursery and greenhouse products	$1,000	35,973	24,291
Other crops	$1,000	284,164	216,040
Livestock, poultry, and their products	$1,000	102,539	88,230
Poultry and poultry products	$1,000	21,519	17,187
Dairy products	$1,000	24,329	23,206
Cattle and calves	$1,000	45,495	39,625
Sheep, lambs, and wool	$1,000	(D)	(D)
Hogs and pigs	$1,000	9,175	(D)
Other livestock and livestock products	$1,000	(D)	742
Farms by value of sales:			
$250,000 or more		161	130
$100,000 to $249,999		192	150
$40,000 to $99,999		343	313
$20,000 to $39,999		469	380
$10,000 to $19,999		610	565
$5,000 to $9,999		653	672
Less than $5,000		2,160	2,086
Value of agricultural products sold directly to individuals for human consumption	farms	549	457
	$1,000	4,546	2,494
Farm-related income:			
Income from machine work, customwork, and other agricultural services	farms	146	119
	$1,000	1,963	1,200

D Withheld to avoid disclosing data for individual farms.

Source: U.S. Bureau of the Census, 1978 Census of Agriculture, State and County Data, Hawaii, AC78-A-11 (June 1981), Chapter 1, tables 11 and 12. 1982 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data, AC82-A-11 (September 1984) Chapter 1, tables 11, 15, and 49.

Table 523.-- CHARACTERISTICS OF FARM OPERATORS: 1982 AND 1978

Subject	1982	1978
Farms by type of organization:		
Individual or family .... number	3,852	3,614
acres	481,212	656,332
Partnership .... number	351	326
acres	130,761	222,668
Corporation:		
Family held .... number	272	233
acres	507,280	377,595
Other than family held .... number	80	93
acres	492,941	595,644
Other -- cooperative, estate or trust, institutional, etc. number	40	44
acres	345,307	136,043
Tenure of operator:		
Full owners .... farms	2,332	2,111
acres	328,728	281,019
Part owners .... farms	794	713
acres	1,286,352	1,388,319
Owned land in farms .... acres	537,945	603,654
Rented land in farms .... acres	748,407	784,665
Tenants .... farms	1,469	1,486
acres	342,421	318,944
Operators by principal occupation and residence:		
Farming 1/................................	2,565	2,239
Residence on farm operated	1,629	1,287
Residence not on farm operated	657	516
Other than farming 1/.....................	2,030	2,071
Residence on farm operated	1,043	890
Residence not on farm operated	779	660
Operators by age group:		
Under 25 years	35	51
25 to 34 years	630	535
35 to 44 years	794	600
45 to 54 years	803	1,005
55 to 64 years	1,325	1,270
65 years and over	1,008	849
Average age	52.7	52.7
Female operators:		
Farms .... number	615	579
Land in farms .... acres	129,674	132,173

Continued on next page.

Table 523.-- CHARACTERISTICS OF FARM OPERATORS: 1982 AND 1978 -- Con.

Subject	1982	1978
Operators by race:		
White	1,304	1,039
Black and other races	3,291	3,271
Operators reporting days of work off farm:		
Any	2,534	2,495
100 days or more	2,024	1,878

1/ Components do not sum to category total because of non-reporting.

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Preliminary Report, Hawaii, AC32-A-15-000(P) (January 1984), table 2. 1982 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data, AC82-A-11 (September 1984), Chapter 1, tables 5 and 46.

Table 524.-- IRRIGATION OF FARMS: 1982, 1978, AND 1974

Subject		1982	1978	1974
Irrigated farms	number	1,544	1,493	889
Proportion of farms	percent	33.6	34.6	29.4
Land in irrigated farms	acres	645,774	600,255	648,948
Irrigated land	acres	145,982	159,323	141,742
Average per farm	acres	95	107	159
Harvested crop land	farms	1,516	1,465	(NA)
	acres	76,035	77,396	(NA)

NA Not available.

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data, AC82-A-11 (September 1984), Chapter 1, table 2.

Table 525. -- FARMS PRODUCTION EXPENSES, MACHINERY AND EQUIPMENT: 1982 AND 1978

Subject		1982	1978
Selected farm production expenses:			
Livestock and poultry purchased	$1,000	17,581	12,930
Feed for livestock and poultry	$1,000	41,548	34,227
Commercially mixed formula feeds	$1,000	22,275	28,302
Seeds, bulbs, plants, and trees	$1,000	9,667	2,033
Commercial fertilizer	$1,000	33,477	26,530
Other agricultural chemicals	$1,000	16,417	13,700
Hired farm labor	$1,000	146,277	131,217
Workers working 150 days or more	farms	727	661
	number	10,252	11,380
Contract labor	$1,000	3,455	2,396
Customwork, machine hire, and rental of machinery and equipment	$1,000	6,415	5,022
Energy and petroleum products	$1,000	24,155	19,816
Gasoline and gasohol	$1,000	7,778	4,557
Diesel fuel	$1,000	9,465	5,222
Electricity	$1,000	4,162	8,211
Interest expense	$1,000	17,771	(NA)
Machinery and equipment:			
Estimated market value of all machinery and equipment	$1,000	190,230	172,521
Average per farm	dollars	41,735	41,047
Motortrucks, including pickups	farms	3,394	3,047
	number	7,545	7,318
Wheel tractors	farms	1,812	1,564
	number	3,357	3,003

NA Not available.

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data, AC82-A-11 (September 1984), Chapter 1, tables 7, 8, 10, 13 and 14.

Table 526.-- CROPS HARVESTED: 1982 AND 1978

Subject		1982	1978
Sugarcane for sugar	farms	188	328
	acres	89,696	99,065
	tons	8,950,242	9,213,485
Pineapples harvested	farms	15	20
	acres	23,141	25,314
	tons	626,860	685,502
Taro	farms	218	175
	acres	417	426
	pounds	6,360,054	8,908,700
Vegetables harvested for sale	farms	746	751
	acres	4,673	5,509
Farms by acres harvested:			
0.1 to 4.9 acres		548	546
5.0 to 24.9 acres		157	146
25.0 to 99.9 acres		36	55
100.0 acres or more		5	4
Chinese cabbage	farms	47	62
	acres	413	563
Head cabbage	farms	73	64
	acres	768	781
Lettuce and romaine	farms	95	94
	acres	867	1,143
Land in orchards	farms	1,825	1,438
	acres	23,178	17,948
Farms by acres harvested:			
0.1 to 4.9 acres		1,158	875
5.0 to 24.9 acres		601	503
25.0 to 99.9 acres		48	46
100.0 acres or more		18	14
Avocados	farms	421	302
Bearing and nonbearing	acres	558	438
	pounds	711,760	413,161
Bananas	farms	533	397
Bearing and nonbearing	acres	1,104	837
	pounds	5,563,365	6,670,317
Coffee	farms	598	494
Bearing and nonbearing	acres	1,582	1,585
	pounds	1,806,396	1,797,422
Guavas	farms	174	126
Bearing and nonbearing	acres	938	1,001
	pounds	5,674,642	2,789,599

Continued on next page.

Table 526.-- CROPS HARVESTED: 1982 AND 1978 -- Con.

Subject		1982	1978
Land in orchards -- Con.			
Papayas	farms ..	343	256
Bearing and nonbearing	acres ..	2,701	3,268
	pounds .	50,258,158	70,680,121
Macadamia nuts	farms ..	879	583
Bearing and nonbearing	acres ..	15,472	10,149
	pounds .	35,594,548	22,051,322
Nursery and greenhouse products, mushrooms, and sod grown for sale	farms ..	1,050	1,008
under glass or other protection ...	sq. ft.	21,063,515	17,637,691
in the open	acres ..	1,650	1,355
	$1,000 .	35,973	24,291
Cut flowers and cut florist greens ..	farms ..	586	601
under glass or other protection ...	sq. ft.	10,863,917	10,851,517
in the open	acres ..	823	776
	$1,000 .	14,751	11,451
Foliage and flowering plants	farms ..	361	358
under glass or other protection ...	sq. ft.	6,130,313	4,582,418
in the open	acres ..	517	360
	$1,000 .	13,518	8,820
Nursery products	farms ..	177	104
under glass or other protection ...	sq. ft.	1,258,657	763,080
in the open	acres ..	292	203
	$1,000 .	4,441	2,316

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data, AC82-A-11 (September 1984), Chapter 1, tables 41, 42, and 43, and Chapter 2, tables 27 and 31.

Table 527.-- LIVESTOCK AND POULTRY: 1982 AND 1978

Subject		1982	1978
Cattle and calves inventory	farms	1,040	839
	number	241,969	218,901
Cows and heifers that had calves	farms	825	696
	number	103,290	98,579
Beef cows	farms	784	659
	number	90,523	85,623
Milk cows	farms	88	76
	number	12,767	12,956
Heifers and heifer calves	farms	808	672
	number	66,844	60,871
Steers, steer calves, bulls, and bull calves	farms	940	744
	number	71,835	59,451
Cattle and calves sold	farms	817	740
	number	91,675	105,088
Cattle sold	farms	639	515
	number	80,888	91,228
Cattle fattened on grain and concentrates sold	farms	103	45
	number	33,182	38,882
Dairy products sold	farms	30	32
	$1,000	24,329	23,206
Hogs and pigs inventory	farms	371	399
	number	49,029	50,071
Hogs and pigs used or to be used for breeding	farms	285	310
	number	6,779	7,267
Hogs and pigs sold	farms	319	352
	number	66,875	70,361
Feeder pigs sold	farms	66	86
	number	7,100	9,683
Litters of pigs farrowed between --			
Dec. 1 of preceding year and Nov. 30	farms	289	316
	number	10,323	11,346
Dec. 1 of preceding year and May 31	farms	260	306
	number	4,930	5,740
June 1 and Nov. 30	farms	251	285
	number	5,430	5,606
Sheep and lambs inventory	farms	34	13
	number	(D)	(D)
Sheep and lambs sold	farms	17	5
	number	(D)	(D)
Sheep and lambs shorn	farms	13	4
	number	(D)	(D)
Wool	pounds	(D)	(D)

Continued on next page.

Table 527.-- LIVESTOCK AND POULTRY: 1982 AND 1978 -- Con.

Subject	1982	1978
Horses and ponies inventory .... farms ...	505	365
number ..	4,030	4,087
Chickens 3 months old or older inventory farms ...	201	141
number ..	929,210	1,243,801
Hens and pullets of laying age inventory .... farms ...	198	137
number ..	(D)	1,065,586
Broilers and other meat-type chickens sold .... farms ...	23	27
number ..	3,173,500	2,588,757

D Withheld to avoid disclosing data for individual farms.

Source: U.S. Bureau of the Census, 1978 Census of Agriculture, State and County Data, Hawaii, AC78-A-11 (June 1981), Chapter 1, tables 18 and 21; 1982 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data, AC82-A-11 (September 1984), Chapter 1, tables 11, 17, 23, 29, 30, 31, 35 and 38.

Table 528.-- MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD, BY COUNTIES: 1982 AND 1978

Year	State total	Hawaii	Honolulu	Kauai	Maui
Total sales ($1,000):					
1982	558,608	206,427	144,028	70,957	137,196
1978	419,251	148,399	118,608	48,679	103,564
Sales per farm (dollars):					
1982	121,569	81,302	147,570	173,066	204,771
1978	97,274	65,490	112,639	131,920	166,502

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data, AC82-A-11 (September 1984), Chapter 2, table 3.

Table 529.-- FARMS, LAND IN FARMS, AND LAND USE, FOR COUNTIES: 1982

Subject	Counties 1/			
	Hawaii	Hono-lulu	Kauai	Maui
Farms number	2,539	976	410	670
Land in farms acres	1,172,448	125,932	255,981	403,140
Average size of farm acres	462	129	624	602
Value of land and buildings:				
Average per farm dollars	639,822	389,732	1,833,704	1,225,224
Average per acre dollars	1,385	3,017	2,930	2,036
Farms by size:				
1 to 9 acres	1,468	768	191	316
10 to 49 acres	746	141	136	238
50 to 179 acres	178	27	51	64
180 to 499 acres	68	17	16	25
500 to 999 acres	21	8	1	3
1,000 to 1,999 acres	13	8	7	5
2,000 acres or more	45	7	8	19
Land in farms according to use:				
Total cropland farms	2,286	757	286	507
acres	135,796	50,614	51,868	107,835
Harvested cropland farms	2,123	732	240	443
acres	59,629	(D)	24,039	(D)
Cropland used only for pasture or grazing farms	195	32	77	96
acres	17,438	(D)	2,670	(D)
Other cropland farms	514	142	78	121
acres	58,729	22,696	25,159	50,012
Woodland, including woodland pastured farms	80	22	13	33
acres	80,103	20,366	1,636	15,165
Pastureland and rangeland other than cropland and woodland pastured farms	339	84	145	175
acres	788,077	27,873	108,759	208,140
Land in house lots, ponds, roads, wasteland, etc. farms	1,109	475	251	392
acres	168,472	27,079	93,718	72,000
Farms with irrigation number	484	525	182	355
Irrigated land acres	11,870	36,131	34,414	63,567

D Withheld to avoid disclosing data for individual farms.

1/ Kalawao, not shown separately, did not have any farms in 1982.

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data, AC82-A-11 (September 1984), Chapter 2, tables 1, 2, and 4.

Table 530.-- NUMBER OF FARMS, FARM ACREAGE, AND FARM EMPLOYMENT: 1974 TO 1984

Year	Number of farms 1/	Farm acreage 2/ (1,000)	Farm employment 3/		
			Self-employed farm operators	Unpaid family members	Hired workers
1974	3,800	2,200	3,040	1,660	10,180
1975	3,900	2,150	3,060	1,720	11,040
1976	4,000	2,100	2,890	1,560	11,240
1977	4,100	2,050	2,840	1,550	11,300
1978	4,300	1,980	2,890	1,810	11,600
1979	4,300	1,980	3,020	1,520	10,800
1980	4,300	1,970	3,400	1,100	10,550
1981	4,400	1,965	3,100	900	10,500
1982 4/	4,500	1,960	2,600	1,300	13,000
1983 4/	4,500	1,960	2,500	1,500	13,000
1984	4,600	1,950	2,200	1,300	12,000

1/ Based on farm definition of $1,000 or more of agricultural sales.

2/ Includes land not in crop and pasture, such as farm house lots, roads, woodlots, etc.

3/ Annual averages through 1980, and varying dates thereafter.

4/ Revised from Data Book 1984, table 571.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 531.-- VALUE OF CROP AND LIVESTOCK SALES: 1974 TO 1984

[$1,000]

Year	All crops and livestock	Crops				Livestock
		All crops	Sugar (unprocessed cane)	Pineapples (fresh equiv.)	Other crops	
1974	575,432	517,523	442,300	40,259	34,964	57,909
1975	377,575	319,304	237,000	41,616	40,688	58,271
1976	327,820	265,498	164,700	52,983	47,815	62,322
1977	325,182	260,164	144,200	62,249	53,715	65,018
1978	380,655	308,098	182,700	63,090	62,308	72,557
1979	441,253	362,789	217,600	69,409	75,780	78,464
1980	634,101	552,877	385,100	76,596	91,181	81,224
1981	489,502	401,348	207,500	89,745	104,103	88,154
1982	507,555	429,147	230,800	94,364	103,983	78,408
1983 1/ ...	568,452	481,964	266,900	100,376	114,688	86,488
1984	553,909	466,884	256,200	89,928	120,756	87,025

1/ Revised from Data Book 1984, table 571.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 532.-- NUMBER OF FARMS, FARM ACREAGE, AND FARM EMPLOYMENT, BY COUNTIES OR ISLANDS: 1974, 1983, AND 1984

County or island	Number of farms 1/	Farm acreage 2/ (1,000)	Farm employment 3/		
			Self-employed farm operators	Unpaid family members	Hired workers
State total:					
1974	3,800	2,200	3,040	1,660	10,180
1983 4/	4,500	1,960	2,500	1,500	13,000
1984	4,600	1,950	2,200	1,300	12,000
Hawaii Co.:					
1974	2,200	1,330	1,530	830	3,100
1983 4/	2,600	1,145	1,600	1,000	4,050
1984	2,650	1,140	1,500	900	4,100
Maui Co.:					
1974	500	455	430	160	3,200
1983 4/	525	420	300	100	4,250
1984	550	420	300	100	3,700
Oahu:					
1974	800	135	800	560	2,550
1983	1,000	125	500	300	2,950
1984	1,025	120	400	300	2,850
Kauai Co.:					
1974	300	280	280	120	1,300
1983 4/	375	275	100	100	1,450
1984	375	275	100	50	1,400

1/ Farm definition revised in 1979.

2/ Includes land not in crops and pasture, such as farm house lots, roads, woodlots, etc.

3/ Data not comparable among years shown due to changes in survey periods; sum of island estimates may not add due to rounding.

4/ Revised from Data Book 1984, table 572.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 533.-- VALUE OF CROP AND LIVESTOCK SALES, BY COUNTIES OR ISLANDS: 1974, 1983, AND 1984

[$1,000]

County and year	All crops and livestock	Crops				Livestock
		All crops	Sugar (unprocessed cane)	Pineapples (fresh equiv.)	Other crops	
State total:						
1974	575,432	517,523	442,300	40,259	34,964	57,909
1983 1/ ...	568,452	481,964	266,900	100,376	114,688	86,488
1984	553,909	466,884	256,200	89,928	120,756	87,025
Hawaii Co.:						
1974	197,618	182,487	165,400	-	17,087	15,131
1983 1/	191,824	167,951	100,000	-	67,951	23,873
1984	185,027	161,794	94,000	-	67,794	23,233
Maui Co.:						
1974	149,570	141,663	110,400	25,626	5,637	7,907
1983 1/	148,327	135,934	73,500	45,099	17,335	12,393
1984	145,295	132,774	72,600	42,176	17,998	12,521
Oahu:						
1974	126,425	94,322	69,800	14,633	9,889	32,103
1983 1/	166,542	121,431	41,000	55,277	25,154	45,111
1984	160,049	113,991	37,200	47,752	29,039	46,058
Kauai Co.:						
1974	101,819	99,051	96,700	-	2,351	2,768
1983 1/	61,759	56,648	52,400	(2/)	4,248	5,111
1984	63,538	58,325	52,400	(2/)	5,925	5,213

1/ Revised from Data Book 1984, table 572.

2/ Less than $50,000.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 534.-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES: 1974, 1983, AND 1984

Subject	1974	1983 1/	1984
Acreage in crop (1,000 acres):			
Sugarcane	224.2	194.3	188.4
Pineapples (land used for pineapple)	55.0	36.0	35.0
Vegetables and melons (harvested acreage)	3.7	5.1	5.3
Fruits, excluding pineapples	4.4	6.1	6.5
Coffee	2.9	2.0	2.0
Macadamia nuts	9.9	15.8	16.9
Miscellaneous crops	3.5	12.2	11.9
Number of crop farms:			
Sugar	527	230	185
Pineapples	20	18	18
Vegetables and melons	436	683	677
Fruits (excluding pineapples)	559	724	800
Coffee	760	610	615
Macadamia nuts	400	600	605
Taro	127	155	137
Flowers and nursery products	465	680	670
Volume of crop marketings:			
Sugar, unprocessed cane (1,000 tons)	9,083	8,926	8,454
Pineapples, fresh equivalent (1,000 tons)	700	722	600
Vegetables and melons (1,000 lb.)	58,154	89,400	86,770
Fruits, excluding pineapples (1,000 lb.)	51,527	78,900	99,430
Coffee, parchment (1,000 lb.)	1,540	2,800	1,800
Macadamia nuts, in shell (1,000 lb.)	16,370	36,420	37,700
Taro (1,000 lb.)	8,835	5,440	6,310
Value of crop sales ($1,000):			
Sugar (unprocessed cane)	442,300	266,900	256,200
Pineapples (fresh equivalent)	40,259	100,376	89,928
Vegetables and melons	10,013	25,996	26,434
Fruits (excluding pineapples)	6,637	14,593	13,315
Coffee (parchment)	714	6,300	4,770
Macadamia nuts (in shell)	5,238	23,928	26,088
Taro	900	1,229	1,382
Field crops (not estimated separately)	3,071	6,277	5,662
Flowers and nursery products	8,211	36,165	42,905

1/ Revised from Data Book 1984, table 573.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 535.-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES, BY GEOGRAPHIC AREAS: 1984

Subject	Hawaii County	Maui County	Oahu	Kauai County
Acreage in crop (1,000 acres):				
Sugarcane	70.9	47.2	26.4	43.9
Pineapples (land used for pineapple)	-	23.2	11.8	(1/)
Vegetables and melons (harvested acreage)	2.0	1.8	1.4	0.1
Fruits, excluding pineapples	4.6	0.2	0.8	0.9
Coffee	2.0	-	-	-
Macadamia nuts	15.5	(D)	(D)	(D)
Miscellaneous crops	1.0	9.0	1.2	0.7
Number of crop farms:				
Sugar	174	3	3	5
Pineapples	-	13	2	3
Vegetables and melons	310	80	225	62
Fruits (excluding pineapples)	520	48	151	81
Coffee	615	-	-	-
Macadamia nuts	595	3	3	4
Taro	57	20	10	50
Flowers and nursery products	315	80	250	25
Volume of crop marketings:				
Sugar, unprocessed cane (1,000 tons)	3,420	2,283	1,152	1,599
Pineapples, fresh equivalent (1,000 tons)	-	419	181	(2/)
Vegetables and melons (1,000 lb.)	37,590	32,730	14,560	1,890
Fruits, excluding pineapples (1,000 lb.)	75,320	1,420	6,240	16,450
Coffee, parchment (1,000 lb.)	1,800	-	-	-
Macadamia nuts, in shell (1,000 lb.)	37,500	(D)	(D)	(D)
Taro (1,000 lb.)	795	(D)	(D)	4,350
Value of crop sales ($1,000):				
Sugar (unprocessed cane)	94,000	72,600	37,200	52,400
Pineapples (fresh equivalent)	-	42,176	47,752	(3/)
Vegetables and melons	10,238	9,088	6,514	594
Fruits (excluding pineapples)	9,360	343	1,699	1,913
Coffee (parchment)	4,770	-	-	-
Macadamia nuts (in shell)	25,950	(D)	(D)	(D)
Taro	205	(D)	(D)	918
Field crops (not estimated separately)	142	3,708	122	1,690
Flowers and nursery products	16,944	4,546	20,627	788

D Withheld to avoid disclosure of individual operations.
NA Not available.
1/ Less than 500 acres.
2/ Less than 500 tons.
3/ Less than $50,000.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture 1984.

Table 536.-- VEGETABLES, MELONS, FRUITS, NUTS, COFFEE, AND TARO: 1984

[Data shown for crops with sales in excess of $500,000]

Crop	Acreage harvested 1/	Yield per acre (1,000 lb.)	Production (1,000 lb.)	Farm price (cents per lb.)	Value of sales ($1,000)
Vegetables and melons:					
Snap beans	170	8.2	1,390	66.0	917
Burdock	50	16.4	820	63.9	524
Chinese cabbage	400	19.8	7,910	13.1	1,036
Mustard cabbage	165	10.7	1,770	30.3	536
Head cabbage	470	28.1	13,190	15.6	2,058
Celery	115	35.2	4,050	20.0	810
Cucumbers	230	21.2	4,870	27.7	1,349
Daikon	200	15.0	3,000	17.1	513
Eggplant	60	23.0	1,380	44.2	610
Ginger root	135	37.4	5,050	45.1	2,280
Lettuce (head, semi-head)	730	14.0	10,200	24.1	2,458
Dry onions	200	13.3	2,660	61.4	1,633
Green onions	170	7.3	1,240	69.7	864
Green peppers	110	13.3	1,460	46.7	682
Watercress	35	...	1,400	83.8	1,173
Tomatoes	280	27.5	7,700	40.3	3,103
Watermelons	400	15.2	6,090	18.5	1,127
Fruits:					
Bananas	870	10.2	8,900	30.0	2,670
Guavas	610	...	6,740	9.8	661
Papayas	2,590	31.1	80,500	11.4	9,196
Macadamia nuts (1984-1985)	12,000	3.1	37,700	69.2	26,088
Coffee (1984-1985)	1,700	1.1	1,800	265.0	4,770
Taro	370	...	6,310	21.9	1,382

1/ Acreage bearing for macadamia nuts; acreage in crop for watercress and taro.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture, 1984, pp. 31-68.

Note: The table corresponding to this table in the Data Book 1984 (table 575) was dated 1983 but actually contained unrevised 1982 statistics.

Table 537.-- LIVESTOCK INVENTORY, 1974, 1983, AND 1984, AND BY GEOGRAPHIC AREAS, 1984

[In thousands]

Year and geographic area	All cattle and calves 1/	Milk cows 2/	Hogs and pigs 3/	Chickens (excluding broilers) 3/	Bee colonies
1974	242	13	61	1,322	4
1983 4/	226	12	48	1,140	9
1984	218	12	47	1,195	9
GEOGRAPHIC AREAS: 1984					
Hawaii County	128.1	1.6	3.4	172	(NA)
Maui	33.9	1.0	7.5	(5/)	(NA)
Molokai and Lanai	4.4	-	0.7	(5/)	(NA)
Oahu	37.2	8.9	31.5	1,023	(NA)
Kauai County	14.4	0.5	3.9	(5/)	(NA)

NA Not available.
1/ As of following January 1.
2/ As of January 1.
3/ As of December 1.
4/ Revised from Data Book 1984, table 576.
5/ Kauai, Maui, and Molokai combined with Hawaii to avoid disclosure of individual operations.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 538.-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS, AND VALUE OF LIVESTOCK SALES: 1974, 1983, AND 1984

Subject	1974	1983	1984
Number of livestock operations, Dec. 31:			
Cattle 1/	960	950	850
Hogs	580	650	650
Milk	100	90	90
Eggs	80	55	55
Broilers	15	9	8
Honey	20	27	26
Volume of livestock marketings:			
Beef (dressed weight; 1,000 lb.) 2/	27,743	31,985	32,116
Pork (dressed weight; 1,000 lb.)	7,953	7,693	7,878
Milk (million lb.)	137.4	143.7	146.0
Eggs (million)	207	197.3	209.7
Broilers and chickens (1,000 lb.) 3/	5,853	8,947	8,102
Honey (1,000 lb.)	320	1,305	1,107
Value of livestock sales ($1,000):			
Cattle 4/	18,286	29,308	28,101
Hogs 4/	5,822	7,775	8,088
Milk	19,387	28,869	29,288
Eggs	11,385	14,041	15,535
Broilers and chickens	2,807	5,529	5,189
Other 5/	222	966	824

1/ As of January 1; includes beef, dairy, and dairy replacement farms. 1983 figure revised from Data Book 1984, table 578.

2/ Includes slaughter cattle, but excludes calves shipped out-of-State.

3/ Ready-to-cook weight.

4/ Excludes interfarm sales; includes out-of-State sales of slaughter cattle and feeder calves.

5/ Includes sheep, wool, turkeys, horses, honey, and beeswax; 1983 figure revised from Data Book 1984, table 578.

Source: Hawaii Agricultural Reporting System, Statistics of Hawaiian Agriculture (annual).

Table 539.-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS, AND VALUE OF LIVESTOCK SALES, BY GEOGRAPHIC AREAS: 1984

Subject	Hawaii County	Maui County	Oahu	Kauai County
Number of livestock operations, Dec. 31:				
Cattle 1/	395	215	75	165
Hogs	85	105	335	125
Milk	40	16	21	13
Eggs	25	6	20	4
Broilers	-	-	7	1
Honey	6	4	5	11
Volume of livestock marketings:				
Beef 2/ (dressed weight; 1,000 lb.)	20,906	7,686	1,392	2,132
Pork (dressed weight; 1,000 lb.)	651	1,819	4,815	593
Milk (million lb.)	(D)	(D)	112.2	(D)
Eggs (million)	(D)	(D)	177.7	(D)
Broilers and chickens 3/ (1,000 lb.)	-	-	(D)	(D)
Honey (1,000 lb.)	(D)	(D)	(D)	(D)
Value of livestock sales ($1,000):				
Cattle 4/	18,126	6,889	1,045	2,041
Hogs 4/	729	1,940	4,751	668
Milk	(D)	(D)	22,485	(D)
Eggs	(D)	(D)	12,809	(D)
Broilers and chickens	-	-	(D)	(D)
Other 5/	535	125	48	116

D Withheld to avoid disclosure of individual operations.

1/ As of January 1; includes beef, dairy, and dairy replacement farms.

2/ Includes slaughter cattle, but excludes calves shipped out-of-State.

3/ Ready-to-cook weight.

4/ Excludes interfarm sales; includes out-of-State sales of slaughter cattle and feeder calves.

5/ Includes sheep, wool, turkeys, horses, honey, and beeswax.

Source: Hawaii Agricultural Reporting System, Statistics of Hawaiian Agriculture 1984, pp. 5, 7, 10, and 71.

Table 540.-- FLOWERS AND NURSERY PRODUCTS, 1982 TO 1984, AND BY ISLANDS, 1984

Island and year	Number of farms	Area					Value of sales ($1,000)
		Total (acres)	Greenhouse (1,000 sq. ft.)	Artificial shade structure (1,000 sq. ft.)	Natural shade area (acres)	Open field (acres)	
State total:							
1982	650	1,628	2,399	25,126	119	877	30,600
1983	680	1,786	2,327	26,329	106	1,022	36,165
1984	670	1,715	2,414	26,817	92	959	42,905
Islands, 1984:							
Hawaii	315	994	1,195	19,264	83	446	16,944
Kauai	25	38	13	178	4	30	788
Maui	80	277	276	905	-	250	4,546
Oahu	250	406	930	6,470	5	233	20,627

Source: Hawaii Agricultural Reporting Service, Hawaii Flowers and Nursery Products, Annual Summary (May 21, 1985).

Table 541.-- VALUE OF SALES, TOTAL AND OUT-OF-STATE, FOR FLOWERS AND NURSERY PRODUCTS: 1980 TO 1984

[$1,000]

Subject	1980	1981	1982	1983	1984
Total sales	27,688	29,482	30,600	36,165	42,905
Anthuriums, cut	6,878	5,295	5,633	6,035	7,351
Out-of-State sales	14,082	15,976	17,909	22,000	25,610
Anthuriums, cut	6,592	6,237	6,370	7,005	7,050

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture 1984 pp. 20 and 28.

Table 542.-- FLOWERS AND NURSERY PRODUCTS, BY KIND OF FLOWER: 1984

[Shown for commodities with value of sales over $500,000]

Kind of flower	Number of farms	Number sold		Value of sales ($1,000)
		Unit	Number	
Selected cut flowers:				
Anthuriums	205	1,000 dozens	2,335	7,351
Roses	8	1,000 dozens	453	1,556
Chrysanthemums, pompon	14	1,000 bunches	457	690
Orchids:				
Cut: Dendrobium sprays	71	1,000 dozens	208	1,278
Potted: Dendrobiums	84	1,000 pots	208	854
Lei flowers:				
Carnations	20	Million blooms	33.6	1,112
Vanda, Miss Joaquim	28	Million blooms	28.0	1,090
Tuberose	6	Million blooms	28.0	720
Foliage:				
Potted, primarily for --				
Indoor or patio use	85	...	(NA)	14,050
Landscape use	45	...	(NA)	1,245
Unfinished stock (for further growing on)	20	...	(NA)	1,525
Cut: Ti leaves	54	Million leaves	13.3	507
Potted flowering plants:				
Chrysanthemums	10	1,000 pots	278	957
Ornamentals and trees	42	...	(NA)	915

NA Not available.

Source: Hawaii Agricultural Reporting Service, Hawaii Flowers and Nursery Products, Annual Summary (May 22, 1985).

Table 543.-- MARKET SUPPLY OF SPECIFIED FOODS: 1974, 1983, AND 1984

Commodity and year	Total market supply 1/			Per capita market supply 2/	Percent from Hawaii
	Total	Inshipment	Hawaii		
Fresh market fruits:					
1974	63,293	41,524	21,769	68.5	34.4
1983 3/	84,546	67,276	17,270	75.8	20.4
1984	91,343	64,318	27,025	80.0	29.6
Fresh market melons:					
1974	9,939	8,314	1,625	10.8	16.3
1983 3/	18,402	14,532	3,870	16.5	21.0
1984	19,636	13,531	6,105	17.2	31.1
Fresh market vegetables:					
1974	128,342	73,943	54,399	138.9	42.4
1983 3/	190,797	107,316	83,481	171.1	43.8
1984	193,463	114,508	78,955	169.5	40.8
Beef and veal: 4/					
1974	83,340	55,873	27,467	90.2	33.0
1983 3/	99,799	67,814	31,985	89.5	32.0
1984	104,388	72,272	32,116	91.5	30.8
Pork: 4/					
1974	29,772	21,819	7,953	32.2	26.7
1983 3/	36,000	28,307	7,693	32.3	21.4
1984	37,492	29,614	7,878	32.9	21.0
Chickens:					
1974	24,834	18,981	5,853	26.9	23.6
1983 3/	35,879	26,932	8,947	32.2	24.9
1984	37,887	29,785	8,102	33.2	21.4
Eggs:					
1974	18,933	1,633	17,300	20.5	91.4
1983 3/	21,600	5,158	16,442	19.4	76.1
1984	22,285	4,810	17,475	19.5	78.4

1/ Eggs in 1,000 dozens; other foods in 1,000 pounds.

2/ Eggs in dozens; other foods in pounds. Based on de facto population.

3/ Revised from Data Book 1984, table 582.

4/ Carcass weight equivalent.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual); Hawaii State Department of Planning and Economic Development, The Population of Hawaii, 1970-1984: Technical Supplement (Statistical Memorandum 85-3), May 8, 1985, as revised.

Table 544.-- AGRICULTURAL, URBAN AND OTHER LAND USE, FOR THE SIX LARGEST ISLANDS: 1978-1980

[Estimated area in thousands of acres, as measured from 1:24,000-scale quadrangle maps. These data differ somewhat from the official statistics compiled from surveys of farmers and ranchers and published in Statistics of Hawaiian Agriculture (annual), cited elsewhere in this section. For greater detail, see Data Book 1984, table 584]

Land use	Six-island total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Total land area ..	4,034.70	2,573.40	465.80	90.50	165.80	385.30	353.90
Agriculture	1,442.20	960.17	216.39	16.92	86.23	77.55	84.94
Sugarcane	251.05	104.13	54.92	-	-	38.68	53.32
Pineapple	44.54	-	11.11	16.82	3.61	12.98	.02
Field crops	17.88	11.06	2.40	-	1.27	2.82	.33
Orchards	35.68	30.08	2.42	-	.08	1.51	1.59
Wetland crops	.67	.13	.15	-	.01	.07	.31
Aquaculture	.58	.12	.02	-	-	.35	.09
Livestock	1,091.80	814.65	145.37	.10	81.26	21.14	29.28
Feedlot	4.77	1.54	1.97	-	-	1.00	.26
Grazing	1,086.09	813.02	142.55	.10	81.26	20.14	29.02
Other 1/	.94	.09	.85	-	-	-	-
Urban 2/	163.61	36.22	18.91	4.61	4.11	87.43	12.33
Built-up	107.55	15.90	9.64	.33	1.29	71.60	8.79
Vacant	56.06	20.32	9.27	4.28	2.82	15.83	3.54
In agric. use ...	10.06	2.01	1.56	.31	.43	4.48	1.27
Balance 3/	2,428.89	1,577.01	230.50	68.97	75.46	220.32	256.63

1/ Unidentified livestock, also including grazing.

2/ Includes Rural District lands.

3/ Includes Conservation District lands.

Source: Hawaii State Department of Agriculture, Annual Report, Fiscal Year 1983, p. 27.

Table 545.-- LAND EVALUATION RATING, FOR SIX MAJOR ISLANDS: 1985

[Thousand acres. The Land Evaluation and Site Assessment Commission land evaluation rating is a composite index, scaled from 0 to 100, based on measurements of soil productivity and the suitableness of land for agricultural purposes]

Land evaluation rating	Six-island total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Total area	4,042	2,579	466	90	166	386	355
90 or more	66	-	17	3	7	39	-
80 or more	203	17	56	14	23	72	20
70 or more	392	112	76	15	29	99	61
60 or more	604	237	112	16	38	121	80
50 or more	825	350	176	19	48	133	99
40 or more	1,134	577	216	25	58	151	106
30 or more	1,738	1,121	245	26	61	162	122
20 or more	2,230	1,402	300	75	112	192	149

Source: Land Evaluation and Site Assessment Commission, A Progress Report of the State of Hawaii Land Evaluation and Site Assessment System to the Thirteenth Legislature, State of Hawaii (March 1985), p. 29.

Table 546.-- FISHPONDS: PRE-CONTACT AND 1975

Year and condition	Number
Prehistoric royal Hawaiian fishponds	335
Surviving fishponds, 1975	157
Almost completely destroyed or altered	101

Source: Russell A. Apple and William K. Kikuchi, Ancient Hawaii Shore Zone Fishponds (U.S. Department of the Interior, National Park Service, Office of the State Director, July 1975), p. 65.

Table 547. -- AGRICULTURAL CHEMICALS USED, INCLUDING FERTILIZER AND LIME: 1982 AND 1978

Chemicals used		1982	1978
Any chemicals, fertilizer, or lime used	farms	3,532	3,568
Commercial fertilizer	farms	3,158	3,172
	acres on which used	228,984	284,452
	$1,000	33,477	26,530
Lime	farms	525	525
	acres on which used	9,547	12,488
	tons	10,423	12,011
Other agricultural chemicals 1/	farms	3,084	3,277
	$1,000	16,417	13,700
Sprays, dusts, granules, fumigants, etc., to control --			
Insects on hay and other crops	farms	1,702	1,204
	acres on which used	45,671	28,787
Nematodes in crops	farms	654	441
	acres on which used	9,638	9,806
Diseases in crops and orchards	farms	1,067	912
	acres on which used	18,085	12,310
Weeds, grass, or brush in crops and pasture	farms	2,385	2,325
	acres on which used	213,551	269,801
Chemicals used for defoliation or for growth control of crops or thinning of fruit	farms	165	160
	acres on which used	50,455	57,280

1/ Data for 1978 include the cost of lime which was not collected in 1982.

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data, AC82-A-11 (September 1984), Chap. 1, table 16.

Table 548.-- FERTILIZER CONSUMPTION BY TYPE: 1982 TO 1984

[In tons. For years ended June 30]

Year	Total	Mixtures 1/	Direct application materials	
			Primary nutrient 2/	Secondary and micro-nutrient
1982	156,439	100,797	54,627	1,015
1983 3/	138,343	97,360	40,114	869
1984	128,348	83,544	44,108	696

1/ Fertilizers having various combinations of primary nutrients.
2/ The primary nutrients are nitrogen, phosphate, and potash.
3/ Revised from Data Book 1984, table 585.
Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture 1984, p. 95.

Table 549.-- SALES OF AQUACULTURAL PRODUCTS, BY ISLANDS: 1982

Subject	State total	Oahu	Other islands
Number of farms	13	9	4
Water surface area (acres) ...	189	155	34
Sales ($1,000)	884	755	129

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Geographic Area Series, Hawaii, AC82-A-11 (September 1984), Chapter 2, table 21.

Table 550.-- FRESHWATER PRAWN FARMS, BY TYPE OF OPERATION AND ISLAND: 1979 TO 1984

[As of December 31]

Operation and island	1979	1980	1981	1982	1983	1984
All prawn farms	19	24	21	22	21	17
Type of operation:						
Full-time	7	8	8	8	7	7
Part-time	12	16	13	14	14	10
Island:						
Hawaii	-	4	4	4	3	3
Maui	-	-	-	-	1	1
Molokai	1	1	1	1	-	-
Oahu	17	16	13	13	13	10
Kauai	1	3	3	4	4	3

Source follows next table.

Table 551.-- FRESHWATER PRAWN ACREAGE, PRODUCTION, AND VALUE: 1979 TO 1984

Year	Acres of prawn ponds 1/	Production (1,000 lb.)	Value ($1,000)	Wholesale price per pound (dollars)
1979	275	205.0	787.3	3.84
1980	310	300.0	1,125.0	3.75
1981	260	240.0	1,031.0	4.30
1982	306	316.6	1,553.0	4.90
1983	239	268.5	1,347.3	5.01
1984	246	317.7	1,706.6	5.37

1/ As of December 31.

Source: Hawaii State Department of Land and Natural Resources, Aquaculture Development Program, records.

Table 552.-- AQUACULTURE ACREAGE, PRODUCTION, AND VALUE, BY TYPE: 1979 TO 1984

Subject and year	All types	Fresh-water prawns	Fish-ponds	Post-larvae 1/	Other species 2/
Acreage:					
1979	493	275	192	1	25
1980	575	310	205	2	58
1981	547	260	199	2	86
1982	643	306	242	2	93
1983	495	239	217	2	38
1984	452	246	180		26
Production (1,000 lbs.): 3/					
1979	246.4	205.0	20.0	...	16.4
1980	320.0	300.0	20.0	...	31.0
1981	338.5	240.0	23.1	...	75.4
1982	551.2	316.6	33.8	...	200.8
1983	344.9	268.5	40.5	...	35.9
1984	440.7	317.8	44.0		78.9
Value ($1,000):					
1979	1,531.3	787.3	22.0	500.0	222.0
1980	1,655.0	1,125.0	20.0	450.0	60.0
1981	1,868.5	1,031.0	23.0	610.0	204.5
1982	2,624.9	1,553.0	74.8	162.0	835.1
1983	1,604.8	1,347.3	97.5	(NA)	160.0
1984	2,299.7	1,706.5	98.0	77.0	418.1

NA Not available.

1/ Juvenile freshwater prawns and marine shrimp.

2/ Oysters, brine shrimp, carp and Chinese catfish, catfish, koi, tilapia, tropical fish and aquarium plants, and trout.

3/ Excludes items not sold by weight: post-larvae, brine shrimp, koi, tropical fish, and aquarium plants.

Source: Hawaii State Department of Land and Natural Resources, Aquaculture Development Program, records.

Section 20

FORESTS, FISHERIES, AND MINING

This section presents data on forests and forest products, commercial fishing, and mining and mineral products.

The most recent available statistics show 1.2 million acres of forest and water reserve and 948,000 acres of commercial timberland in the State, most of it on the Big Island. Over 46,000 acres had been planted in eucalyptus and other species of trees by mid-1984. Forest products harvested in 1977 had a value of $3.5 million, including $2.3 million from logs for fiber. Forest and brushland fires burned 8,000 acres in fiscal 1984.

The commercial fish catch in fiscal year 1983 amounted to 7.8 million pounds and had a value of $11 million. *Ahi* (yellowfin) and *aku* (skipjack) accounted for about 44 percent of the total value. Other important species are *mahimahi*, *opakapaka*, *ono*, *akule*, *opelu* and Pacific blue marlin. Commercial fishermen numbered 2,480; they operated some 1,300 fishing vessels, serving about 119 fishery wholesaling and processing establishments.

The value of mineral production reached $54 million in 1984, most of it in cement ($20 million) and stone ($31 million). The 1984 total was well below the all-time high reached in 1979.

Important sources of data on these subjects are the United States Census of Mineral Industries and reports and records of the U.S. Bureau of Mines and Hawaii State Department of Land and Natural Resources, Aquatic Resources Division and Forestry and Wildlife Division. *Historical Statistics of Hawaii*, Section 14, summarizes the data for earlier periods. Comparable Mainland statistics are reported in the *Statistical Abstract of the United States: 1985*, Sections 25, 26 and 27.

Table 553.-- FOREST ACREAGE, BY ISLANDS: 1970-1984

Island	Forest and water reserve, 1984 1/ (acres)	Forest land, 1970 (acres)			Planted forest, June 30, 1984 (acres)	
		Total	Commercial 2/	Noncommercial 3/	Planted in preceding year	Total standing
State total	1,169,922	1,986,400	947,800	1,038,600	246	46,525
Hawaii	691,745	1,152,500	569,400	583,100	202	18,037
Maui	146,500	239,800	67,500	172,300	43	11,589
Kahoolawe	-	15,800	-	15,800	-	-
Lanai	6,150	43,900	4,500	39,400	-	512
Molokai	45,831	78,100	34,000	44,100	-	3,205
Oahu	117,726	205,300	126,500	78,800	-	7,036
Kauai	161,970	219,900	145,900	74,000	1	6,146
Niihau	-	31,100	-	31,100	-	-
Other islands ..	-	-	-	-	-	-

1/ Forest and water reserve within conservation district, as of June 30.

2/ Includes federal military, state, miscellaneous corporate, and miscellaneous individual forest land.

3/ Unproductive or productive-reserved.

Source: Hawaii State Department of Land and Natural Resources, Division of Forestry and Wildlife, records.

Table 554.-- COMMERCIAL TIMBERLAND OWNERSHIP AND VOLUME OF SAWTIMBER AND GROWING STOCK: 1977

Subject	Amount
Commercial timberland (1,000 acres)	948
Federally owned or managed	12
State or county	442
Private	494
Sawtimber net volume (million board feet)	1,047
Softwood only	17
Growing stock, net volume (million cubic feet)	202
Softwood only	4

Source: U. S. Forest Service study cited in Statistical Abstract of the United States: 1985, p. 675.

Table 555.-- FOREST AND BRUSHLAND FIRES: 1983 AND 1984

[Years ended June 30]

County	Number of fires		Acres burned	
	1983	1984	1983	1984
State total	170	172	19,130	8,137
Hawaii	55	38	15,373	2,079
Maui	74	82	851	4,010
Honolulu	26	35	2,697	1,997
Kauai	15	17	210	53

Source: Hawaii State Department of Land and Natural Resources, Division of Forestry and Wildlife, records.

Table 556.-- COMMERCIAL FISHING: 1962 TO 1984

[Years ended June 30]

Year	Number of commercial fishermen	Commercial fish catch 1/		
		Pounds caught	Pounds sold	Value to primary producers (dollars)
1962	940	13,800,761	13,173,259	2,870,702
1963	808	10,685,604	10,629,701	2,539,189
1964	805	12,013,869	11,970,398	2,732,125
1965	717	17,105,515	17,053,925	3,340,651
1966	715	15,985,626	15,924,854	3,318,803
1967	801	12,344,555	12,274,531	3,146,177
1968	760	12,828,387	12,740,307	3,253,538
1969	1,028	10,065,623	9,974,455	2,798,424
1970	1,264	9,786,726	9,588,319	3,585,166
1971	1,373	15,176,525	14,945,539	4,633,875
1972	1,544	15,577,669	15,246,519	5,536,521
1973	1,677	14,029,491	13,719,284	5,676,783
1974	2,085	13,997,774	13,660,574	6,234,924
1975	1,991	10,801,441	10,404,019	6,242,614
1976	2,283	11,893,141	11,332,659	7,508,395
1977	2,368	15,298,515	14,763,816	9,433,781
1978	2,574	13,672,061	13,139,142	11,115,964
1979	2,447	12,310,524	11,890,241	12,673,328
1980	2,525	10,418,964	9,946,065	10,497,456
1981	2,577	10,890,468	10,465,731	11,828,575
1982	2,525	9,178,789	8,824,348	10,754,276
1983	2,480	7,841,959	7,529,178	10,506,860
1984	2,940	9,812,619	9,335,366	13,527,277

1/ Represents the total catches of all licensed commercial fishers. Includes both sea and pond catch, but excludes coral harvests. Particularly for years since 1979, data may be incomplete due to unreported aku (skipjack tuna) boat and flagline boat catches.

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, Commercial Fish Landings for Fiscal Year (annual), as revised, and records.

Table 557.-- COMMERCIAL FISH CATCH, BY SPECIES: 1984

[Year ended June 30, 1984]

Species 1/	Pounds caught	Pounds sold	Value (dollars)
Total catch	9,835,919	9,358,567	13,570,478
Sea catch, all species 2/	9,812,619	9,335,366	13,527,277
Aku (Skipjack)	3,304,367	3,234,646	2,903,117
Ahi (Yellowfin)	2,030,337	1,928,669	3,096,791
Akule	646,348	616,489	676,263
Ahipalaha	388,466	347,578	284,413
Pacific blue marlin	327,503	291,380	242,181
Shrimp (laevigatus)	316,287	316,167	527,407
Opelu	316,107	305,341	414,127
Mahimahi	275,836	255,580	835,782
Ono	257,924	241,175	649,722
Ahi (Bigeye)	243,798	242,276	577,827
Opakapaka	228,817	223,030	756,716
Uku	144,829	141,031	349,810
Ulua	102,842	96,767	157,965
Striped marlin	93,418	84,518	124,178
Onaga	87,607	84,387	314,333
Lobster	69,849	59,831	312,184
Ehu	36,998	35,038	110,983
Pond catch, all species	23,300	23,201	43,201

1/ Shown separately for all species over 100,000 lb. or $100,000.

2/ Including species not shown separately.

Source follows next table.

Table 558.-- COMMERCIAL FISH LANDINGS, BY ISLANDS: 1984

[Year ended June 30, 1984]

Island	Pounds caught	Pounds sold	Value (dollars)
State total	9,835,919	9,358,567	13,570,478
Hawaii	2,700,799	2,583,311	3,698,171
Maui	824,047	753,440	1,000,518
Lanai	21,867	19,904	23,147
Molokai	43,801	36,913	59,986
Oahu	5,254,324	5,030,027	7,404,588
Kauai	991,081	934,972	1,384,068

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, Commercial Fish Landings for Fiscal Year -- July, 1983 through June, 1984.

Table 559.-- VOTES CAST FOR DESIGNATION OF A STATE FISH: 1984

Fish	Votes cast
All choices	60,151
Humuhumu nukunuku a pua'a	16,577
Manini	8,742
Lau wiliwili nukunuku 'oi'oi	8,543
Hinalea lauwili	6,206
Uhu uliuli	5,363
Kumu	5,360
Kala	4,815
'Aweoweo	2,650
Write-in votes (60 nominations)	1,895

Source: University of Hawaii, Report to the 1985 Legislature on H.R.5, table 1.

Table 560.-- FISH POPULATIONS AROUND SELECTED SHORELINE AREAS: YEAR ENDED JUNE 30, 1984

Location	Species	Abundance (fish per acre)	Estimated standing crop (lb. per acre)
Marine Life Conservation Districts:			
Hanauma Bay, Oahu: Inshore	72	5,553	3,161
Offshore	86	2,403	296
Pupukea, Oahu	99	1,732	153
Molokini Shoals, Maui 1/	46	3,974	444
Kealakekua Bay, Hawaii	104	3,372	764
Manele-Hulopoe, Lanai	93	1,973	529
Artificial reefs:			
Waianae, Oahu: Car body/concrete pipes	43	683	162
Minesweeper *Mahi*	33	1,465	641
Kualoa, Oahu	41	2,495	227
Shoreline Fisheries Management Areas:			
Waikiki-Diamond Head, Oahu	83	(NA)	750
Olowalu, Maui (potential SFMA)	37	5,432	629
Others:			
Barbers Point, Deep-Draft Harbor, Oahu	74	1,411	142
Puako, Hawaii	30	1,149	230
Honaunau, Hawaii	69	2,027	359

NA Not available.
Source follows next table.

Table 561.--MOST ABUNDANT FISH SPECIES AT HANAUMA BAY AND KEALAKEKUA BAY: YEAR ENDED JUNE 30, 1984

[Three leading species in each area, based on both individuals per acre and pounds per acre]

Location and species	Abundance		Standing crop	
	Rank	Fish per acre	Rank	Pounds per acre
Hanauma Bay, inshore:				
Manini	1	1,729.3	2	296.9
Hinalea lauwili	2	541.1	9	69.7
Jenkin's damsel fish	3	366.0	(T)	(T)
Nenue	5	323.9	1	1,093.5
Blue parrot fish (uhu)	(T)	(T)	3	256.4
Hanauma Bay, offshore:				
Kole	1	294.4	1	23.3
Hinalea lauwili	2	230.6	4	19.2
Vanderbilt's damsel fish	3	221.9	(T)	(T)
Blue parrot fish (uhu)	(T)	(T)	2	20.2
Na'ena'e	11	60.9	3	20.1
Kealakekua Bay:				
Lau'ipala	1	524.2	1	93.7
Kole	2	447.0	4	50.7
Surgeon fish (Acanthurus nigrofuscus)	3	237.6	3	51.9
Surgeon fish (Ctenochaetus hawaiiensis)	8	134.3	2	82.1

T Not among top 20.

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Job Progress Report, Statewide Marine Research and Surveys, Survey of Fish and Habitat, July 1, 1983 to June 30, 1984*.

Table 562.-- LIFE FORMS IN HAWAIIAN WATERS

Life form	Approximate number
Species of fish	700
Species of seaweed (algae)	400
Species of mollusks	1,000
Other known taxa of invertibrates	1,350

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, Hawaii Fisheries Statistics System Design Study (draft report, August 1983), p. 7.

Table 563.-- CHARTER FISHING PATRONS, FOR OAHU: 1983

Subject	Amount
Passenger trips by charter fishing fleet	16,700
Residence (percent): Hawaii	17
U.S. Mainland	61
Foreign	22
Median age (years)	34.8
Median family income (dollars)	41,400
Average number of Hawaii charter fishing trips in past 5 years:	
By residents	3.5
By visitors	1.2
Average expenditure per passenger trip (dollars):	
By residents	89
By visitors	128
Average catch per full-day trip:	
Per patron	0.6
Per boat	2.5

Source: Karl C. Samples and Donald M. Schug, Charter Fishing Patrons in Hawaii: A Study of Their Demographics, Motivations, Expenditures and Fishing Values. Final Report (National Marine Fisheries Service, Honolulu Laboratory, Administrative Report H-85-8C, May 1985). Quoted with permission.

Table 564.-- MINERAL INDUSTRIES: 1958 TO 1982

[Excluding mines at manufactures]

Subject	1958	1963	1967	1972	1977	1982
Number of establishments 1/......	20	44	12	15	7	12
With 20 employees or more	8	4	3	5	2	4
All employees:						
Number (1,000)	.4	.3	.2	.3	.1	.2
Payroll (million dollars)	1.7	1.7	1.6	2.4	1.9	3.8
Production, development, and exploration workers:						
Number (1,000)	.4	.2	.2	.2	.1	.1
Hours (millions)	.7	.6	.4	.4	.2	.2
Wages (million dollars)	1.4	1.5	1.3	1.8	1.5	2.6
Value added in mining (million dollars)	4.6	4.9	5.0	9.0	8.1	9.7
Cost of supplies used, purchased machinery installed, etc. (million dollars)	2.0	2.1	2.3	4.1	2.9	5.9
Value of shipments and receipts (million dollars)	5.8	6.5	5.5	11.0	9.7	12.8
Capital expenditures (million dollars)	.7	.5	1.8	2.0	1.3	2.7

1/ After 1963, data for single-unit establishments without paid employees were excluded from the census of mineral industries. Eight of the 12 establishments reported, including all 4 with 20 employees or more, were in SIC 142, crushed and broken stone, including riprap.

Source: U.S. Bureau of the Census, 1982 Census of Mineral Industries, Geographic Area Series, Pacific States, MIC82-A-9 (April 1985), tables 1 and 2a.

Table 565.-- NONFUEL MINERAL PRODUCTION SUMMARY: 1974 TO 1984

[Production as measured by mine shipments, sales, or marketable production, including consumption by producers]

Year	Quantity (1,000 short tons)		Value ($1,000)			
	Cement	Stone	Total	Cement	Stone	Other minerals
1974	502	7,638	42,042	17,111	21,370	3,561
1975	469	7,569	49,710	20,704	25,319	3,687
1976	339	6,092	42,252	18,410	21,193	2,649
1977	330	5,759	39,980	16,922	19,880	3,178
1978	452	6,027	52,743	26,454	23,840	2,449
1979	481	6,869	63,904	30,423	28,969	4,512
1980	371	6,341	59,676	24,682	30,645	4,349
1981	312	6,036	58,727	23,831	31,407	3,489
1982	233	4,500	46,889	18,676	26,604	1,609
1983 1/ ..	222	5,532	52,411	21,314	29,706	1,391
1984 2/ ..	210	6,000	54,354	20,460	31,200	2,694

1/ Revised from Data Book 1984, table 601.

2/ Preliminary.

Source: U.S. Department of the Interior, Bureau of Mines, "The Mineral Industry of Hawaii," Mineral Industry Surveys (annual).

Table 566.-- NONFUEL MINERAL PRODUCTION: 1983 AND 1984

[Production as measured by mine shipments, sales, or marketable production, including consumption by producers]

Mineral	Quantity (1,000 short tons)		Value ($1,000)	
	1983 1/	1984 2/	1983 1/	1984 2/
Total	(X)	(X)	52,411	54,354
Cement:				
Masonry	216	200	20,673	19,400
Portland	6	10	641	1,060
Sand and gravel (construction)	440	600	1,000	2,400
Stone:				
Crushed	5,532	6,000	29,703	31,200
Dimension	(Z)	-	3	-
Other nonmetals 3/	(X)	(X)	391	294

X Not applicable.

Z Less than 500 short tons.

1/ Revised from Data Book 1984, table 602.

2/ Preliminary.

3/ Gem stones, line, and pumice.

Source: U.S. Bureau of Mines, "The Mineral Industry of Hawaii in 1984," Mineral Industry Surveys (January 25, 1985).

Section 21

CONSTRUCTION AND HOUSING

This section presents statistics on construction activity and costs, the size and composition of the housing inventory, occupancy of housing and office buildings, sales, and residential financing. Related series are included in Sections 6 and 14.

There were 20,582 building permits issued in 1984, with an estimated value of $711 million. The total included $382 million for private residential construction and $196 million for private nonresidential structures. The value of government construction contracts awarded was $412 million. Construction put in place, as indicated by the contracting tax base, totaled $1.35 billion in 1983 and $1.24 billion in 1984. The value of land transfers in 1984 was $3.8 billion. Mortgage loans outstanding at the end of 1983 amounted to $7.6 billion. The July 1985 construction cost index for Honolulu (1967=100) was 357 for single-family residences and 373 for high-rise buildings.

The number of housing units in the State increased from 284,000 in 1975 to 364,000 in 1985. Owner occupied units numbered 116,000 in 1975 and 150,000 in 1985; the latter total included 36,000 on leased land. Condominium units, first authorized in 1961, numbered 98,000 at the end of 1982. Government-owned housing, mostly military and public, accounted for 26,000 units as of 1985. Housing was in short supply throughout most of the past decade: on Oahu, the vacancy rate in March 1983, according to the Federal Home Loan Bank of Seattle, was only 1.3 percent. The average selling price of single family homes on Oahu during 1984, based on Multiple Listing Service data, was $187,000; for condominium units it was $101,000. The median gross monthly rent for Oahu rose from $141 in 1970 to $413 in 1983, and the median value of owner occupied single-family units increased from $38,400 to $163,400.

The principal sources for these data are the 1970 and 1980 U.S. Censuses of Housing, the 1976, 1979, and 1983 Annual Housing Surveys, postal vacancy surveys issued by the Federal Home Loan Bank of Seattle, various series compiled by State and County agencies (primarily the Hawaii Housing Authority, Hawaii State Department of Planning and Economic Development, Department of Commerce and Consumer Affairs, Department of Taxation, and Bureau of Conveyances, and the four County building departments), the construction cost indexes prepared by the First Hawaiian Bank, and the Honolulu Board of Realtors reports on Multiple Listing Service activity. Many of these series are summarized in reports published by the Bank of Hawaii (particularly Construction in Hawaii, issued annually) and the First Hawaiian Bank. Persons interested in figures for earlier periods should consult Historical Statistics of Hawaii, Section 15. Mainland statistics appear in Section 28 of Statistical Abstract of the United States: 1985.

Table 567.-- NUMBER AND VALUE OF BUILDING PERMITS, BY COUNTIES: 1974 TO 1984

Year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
NUMBER ISSUED					
1974	26,027	19,169	3,635	1,066	2,157
1975	23,287	16,514	3,506	1,255	2,012
1976	23,453	15,937	3,535	1,195	2,786
1977	23,406	15,793	3,536	1,173	2,904
1978	25,807	17,758	3,938	1,470	2,641
1979	26,515	18,297	4,062	1,540	2,616
1980	22,771	15,729	3,732	1,210	2,040
1981	21,395	15,141	3,427	1,276	1,551
1982	16,974	11,743	2,581	1,214	1,436
1983	19,733	13,018	2,649	2,165	1,901
1984	20,582	14,404	2,834	1,437	1,907
ESTIMATED VALUE ($1,000)					
1974	831,897	594,896	85,350	36,745	114,906
1975	744,494	495,871	69,691	53,099	125,833
1976	581,226	411,497	58,137	29,921	81,671
1977	534,278	356,591	62,088	32,060	83,539
1978	756,757	421,692	81,965	59,858	193,242
1979	984,559	566,991	144,768	118,453	154,347
1980	1,278,911	745,565	146,395	133,261	253,690
1981	898,428	550,254	136,617	67,844	143,713
1982	714,938	493,139	75,715	55,380	90,704
1983	767,305	410,763	95,979	142,859	117,704
1984	710,661	473,943	102,805	74,076	59,837

Source: City and County of Honolulu Department of Buildings, Summary of Building Permits (annual); Hawaii, Kauai, and Maui County departments of public works, records.

Table 568.-- VALUE OF BUILDING PERMITS, RESIDENTIAL AND NONRESIDENTIAL, BY COUNTIES: 1983 AND 1984

[Thousands of dollars. Limited to private construction, including additions, alteration, and repairs]

Category and year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
Residential:					
1983	379,766	213,083	56,853	71,015	38,814
1984	382,028	237,707	64,371	39,064	40,886
Nonresidential:					
1983	304,111	153,677	31,163	66,835	52,435
1984	195,802	137,198	25,979	13,670	18,954

Source: First Hawaiian Bank, Economic Indicators, Annual Supplement: Hawaii in 1984 (March-April 1985).

Table 569.-- GENERAL EXCISE TAX BASE FOR CONTRACTING: 1974 TO 1984

[In thousands of dollars. Data are on a cash basis accounting and may be distorted by cutoffs, out-of-period adjustments (assessments and error corrections), taxpayer reporting in wrong categories, and computer problems]

Year 1/	Amount	Year 1/	Amount	Year 1/	Amount
1974 ..	1,027,195	1978 ..	1,060,898	1982 ..	1,294,871
1975 ..	1,161,913	1979 ..	1,325,460	1983 ..	1,353,405
1976 ..	1,012,952	1980 ..	1,569,658	1984 ..	1,242,929
1977 ..	983,618	1981 ..	1,613,764		

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to income received in the 12-month period ended November 30.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 570.-- GOVERNMENT CONSTRUCTION CONTRACTS AWARDED, BY AWARDING AGENCY AND LOCATION OF CONSTRUCTION: 1980 TO 1984

[In thousands of dollars. By date of publication]

Awarding agency and location	1980	1981	1982	1983	1984
Total	230,619	427,534	392,767	277,877	411,753
Awarding agency:					
Federal agencies	66,510	176,136	139,588	84,723	129,969
State agencies	119,994	180,542	181,989	126,766	196,674
City and County of Honolulu	25,632	59,056	32,520	49,531	64,715
Other counties	18,483	11,799	38,670	16,856	20,394
Location of construction:					
City and County of Honolulu	168,131	349,034	298,638	218,995	315,510
County of Hawaii	33,766	48,202	23,009	20,364	22,981
County of Kauai	11,079	17,520	25,431	7,994	43,147
County of Maui	17,642	12,778	45,688	30,524	30,114

Source: Compiled by Hawaii State Department of Planning and Economic Development from Trade Publishing Company, BID Service Weekly.

Table 571.-- PRIVATE RESIDENTIAL CONSTRUCTION AND DEMOLITION AUTHORIZED BY PERMITS, BY COUNTIES: 1980 TO 1984

Category and year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui
New 1-family dwellings:						
1980	4,072	1,650	2,422	1,192	427	803
1981	2,551	768	1,783	1,032	353	398
1982	2,451	891	1,560	800	230	530
1983	3,387	1,562	1,825	880	398	547
1984	4,117	2,197	1,920	900	382	638
New duplex units:						
1980	84	46	38	12	24	2
1981	164	42	122	18	38	66
1982	32	32	-	-	-	-
1983	138	60	78	58	6	14
1984	146	112	34	28	4	2
New apartments:						
1980	5,163	1,854	3,309	727	769	1,813
1981	3,135	1,873	1,262	267	60	935
1982	3,038	2,553	485	245	118	122
1983	1,341	1,220	121	38	73	10
1984	1,134	942	192	153	35	4
Units demolished:						
1980	766	665	101	63	6	32
1981	686	521	165	21	70	74
1982 1/	568	443	125	34	1	90
1983 2/	505	385	120	54	4	62
1984	528	429	99	50	5	44

1/ Data exclude housing units destroyed by Hurricane Iwa on November 23-24, 1982 (127 in the City and County of Honolulu and 543 in the County of Kauai). Revised from Data Book 1983, table 527.

2/ Excludes 16 structures destroyed by volcanic activity in Hawaii County.

Source: Compiled from County building departments by the Hawaii State Department of Planning and Economic Development.

Table 572.-- ESTIMATED VALUE PER UNIT, BY TYPE OF STRUCTURE, FOR BUILDING PERMITS ISSUED BY THE CITY AND COUNTY OF HONOLULU: 1979 TO 1984

[In dollars. Excludes building permits for additions, alterations and repair]

Year issued	Single-family	Two-family	Multi-family	Hotel 1/
1979	54,373	43,041	43,399	(2/)
1980	52,755	72,768	65,660	54,301
1981	72,044	69,071	70,710	(2/)
1982	59,719	85,511	44,727	(2/)
1983	68,819	62,808	50,552	(2/)
1984	70,230	53,230	37,892	(2/)

1/ Estimated value per room.

2/ No permit issued.

Source: City and County of Honolulu Department of Building, "Summary of Building Permits" (annual).

Table 573.-- CONDOMINIUM PROJECTS REGISTERED WITH THE STATE OF HAWAII: 1979 TO 1984

Calendar year	Projects	Units	
		Residential	Business or commercial
1979	150	11,805	82
1980	156	9,953	594
1981	98	3,172	1,213
1982	48	1,500	472
1983	56	3,024	410
1984	76	2,662	149

Source: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, records.

Table 574.-- NUMBER OF CONDOMINIUM UNITS BUILT AND STANDING: 1972 TO 1982

Year	Condominium units added to inventory during year					Condominium units standing, Dec. 31
	All types	1-family and duplex	Town-house	Low-rise	High-rise	
1972	2,835	12	770	914	1,139	22,473
1973	6,741	36	1,596	1,619	3,490	29,214
1974	9,275	235	1,775	2,112	5,153	38,489
1975	10,798	68	1,760	2,922	6,043	49,287
1976	7,357	112	655	260	6,330	56,644
1977	3,321	40	942	883	1,456	59,965
1978	3,210	4	604	810	1,792	63,175
1979	6,816	97	1,156	1,447	4,116	69,991
1980	10,441	74	3,263	2,553	4,551	80,432
1981	9,704	67	2,745	4,825	2,067	90,136
1982	7,795	201	1,298	3,544	2,752	97,931

Source: Bank of Hawaii, Construction in Hawaii, 1983 (1983), p. 7.

Table 575.-- HOUSING UNITS CONVERTED FROM RENTAL UNITS TO CONDOMINIUM UNITS: 1963 TO 1984

Calendar year	Projects	Housing units
1963-79	136	6,489
1980	71	3,397
1981	27	661
1982	12	227
1983	12	596
1984	32	607

Source: 1963-1980 compiled by Real Estate Research Center, College of Business Administration, University of Hawaii, from the records of the Hawaii Real Estate Commission; 1981 and later years from Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, records.

Table 576.-- TIME SHARE PROJECTS, DEVELOPERS, STRUCTURES, AND UNITS: JULY 15, 1985

[Time sharing refers to the use, occupancy, or possession of accommodations among various persons for less than 60 days in any year, for any occupant]

Characteristics	State total	Registered for 1984-85 biennium		Not registered for 1984-85 biennium 1/	
		Ownership 2/	Right to use 3/	Ownership 2/	Right to use 3/
Time share plans	78	40	5	26	7
Developers	86	44	5	30	7
Structures	66	33	13	21	15
Units	3,330	1,451	534	657	688
Oahu	2,060	812	398	371	479
Maui	520	224	60	199	37
Molokai	17	17	-	-	-
Hawaii	71	1	42	16	12
Kauai	662	397	34	71	160

1/ Previously registered plans for which developers have not renewed registration to sell time share interests. This implies no new activity for the company in the time share market.

2/ In an ownership plan, the purchaser receives an ownership interest and the right to use the property for a specific period.

3/ In a use plan, the purchaser has a right to use accommodations for a specific period, but does not receive an ownership interest.

Source: State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, Time Sharing Office, records.

Table 577.-- HONOLULU CONSTRUCTION COST INDEXES: 1980 TO 1985

[1967=100. Data are annual averages unless otherwise specified]

Year	Single-family residence			High-rise building		
	All components	Materials prices	Labor 1/	All components	Materials prices	Labor 1/
1980	283.2	263.8	307.8	290.1	270.5	307.1
1981	291.2	254.2	337.9	308.2	274.6	337.4
1982	304.7	250.6	372.9	330.3	281.4	372.7
1983	331.5	276.5	400.9	352.1	294.6	402.0
1984	348.2	281.4	432.5	367.2	294.5	430.2
1985: July 2/	357.1	289.8	442.0	373.0	297.3	438.5

1/ Wages and benefits.
2/ Preliminary.
Source: First Hawaiian Bank, Research Department, records.

Table 578.-- SUMMARY STATISTICS FOR CONSTRUCTION INDUSTRIES AND SUBDIVIDERS AND DEVELOPERS: 1967 TO 1982

[Excludes establishments without payroll]

Subject	1982	1977	1972	1967
Number of establishments in business during year	1,861	1,732	1,570	1,220
Proprietors and working partners	396	530	590	718
All employees	18,665	20,792	25,012	17,171
Construction workers, average.......	13,953	15,784	20,163	14,430
Other employees, March	4,711	5,032	4,949	2,666
Payroll ($1,000,000)	409.7	323.4	282.6	133.6
All business receipts ($1,000,000) ...	1,853.3	1,435.2	1,085.5	543.3
Value added ($1,000,000)	855.2	636.2	477.5	230.3

Source: U.S. Bureau of the Census, 1982 Census of Construction Industries, Pacific States, CC82-A-9 (April 1985), Hawaii table 4.

Table 579.-- SUMMARY STATISTICS FOR CONSTRUCTION INDUSTRIES AND SUBDIVIDERS AND DEVELOPERS, BY INDUSTRY: 1982 AND 1977

[Includes establishments both with and without payroll]

SIC code	Industry	Number	Proprietors and working partners	All employees	All business receipts ($1,000)
	1982				
	Construction industries and subdividers and developers	4,259	2,799	18,665	2,032,087
15-17	Construction industries 1/	4,092	2,645	18,340	1,894,673
15	General building contractors and operative builders	1,020	564	6,290	944,585
16	Heavy construction, general contractors	133	67	1,768	179,221
17	Special trade contractors	2,939	2,014	10,282	770,867
1711	Plumbing, heating, and air conditioning	392	233	2,111	146,402
1731	Electrical work	360	216	1,297	121,525
6552	Subdividers and developers, n.e.c. 2/	162	154	323	137,412
	1977				
	Construction industries and subdividers and developers	3,170	2,020	20,792	1,508,865
15-17	Construction industries 1/	3,029	1,848	20,187	(D)
15	General building contractors and operative builders	843	459	7,944	779,765
16	Heavy construction, general contractors	114	50	2,319	(D)
17	Special trade contractors	2,072	1,340	9,924	469,029
1711	Plumbing, heating, and air conditioning	296	183	1,731	93,350
1731	Electrical work	256	99	1,687	87,466
6552	Subdividers and developers, n.e.c. 2/	145	172	607	(D)

D Withheld to avoid disclosing data for individual companies.

1/ For establishments without payroll, may also include data for construction establishments not classified to two-digit industry detail.

2/ For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.

Source: U.S. Bureau of the Census, 1982 Census of Construction Industries, Pacific States, CC82-A-9 (April 1985), Hawaii table 1.

Table 580.-- DETAILED STATISTICS FOR CONSTRUCTION INDUSTRIES AND SUBDIVIDERS AND DEVELOPERS: 1982 AND 1977

Item	1982	1977
Number of establishments in business during year ...	1,861	1,732
Proprietors and working partners	396	530
All employees	18,665	20,792
Construction workers:		
March	14,789	15,808
May	14,317	16,516
August	12,977	16,798
November	12,915	13,955
Average	13,953	15,784
Other employees:		
March	4,711	5,032
Construction worker hours (thousands):		
Total hours worked	21,817	(NA)
Payroll, all employees ($1,000)	409,679	323,402
Payroll, construction workers	297,885	240,359
Payroll, other employees	111,794	83,043
All business receipts ($1,000)	1,853,343	1,435,157
Total construction receipts	1,785,660	1,329,495
Receipts for work subcontracted in from others .	425,754	303,490
Land receipts	18,509	(NA)
Other business receipts	49,174	105,662
Net construction receipts ($1,000)	1,261,905	962,065
Value added ($1,000)	855,164	636,173
Selected payments ($1,000)	979,670	744,283
Materials, components, and supplies	418,874	361,304
Construction work subcontracted to others	523,754	367,430
Selected power, fuels, and lubricants	37,041	15,549
Ownership of construction projects:		
Total construction receipts ($1,000)	1,785,660	1,329,495
Government owned	499,385	439,607
Privately owned	1,286,274	889,888

NA Not available.

Source: U.S. Bureau of the Census, 1982 Census of Construction Industries, Pacific States, CC82-A-9 (April 1985), Hawaii table 4.

Table 581.-- TENURE AND CONTROL OF HOUSING UNITS: 1970 TO 1985

[Data include condominium units occupied or intended for occupancy by nonresidents]

Year	All housing units 1/	Owner occupied units 2/		Renter occupied and vacant units		
		Land owned	Land leased	Private 3/	Federal 4/	State and County 4/
1970 ..	216,774	68,422	20,802	106,821	14,439	6,290
1971 ..	228,749	72,086	21,732	113,531	15,089	6,311
1972 ..	238,770	75,939	24,565	117,111	14,959	6,196
1973 ..	250,742	78,878	26,776	123,934	15,071	6,083
1974 ..	266,828	82,494	30,333	131,368	16,373	6,260
1975 ..	284,120	85,264	30,543	145,276	16,386	6,651
1976 ..	298,339	88,284	33,730	152,578	17,225	6,522
1977 ..	306,989	89,980	34,549	158,223	17,493	6,744
1978 ..	315,513	92,989	35,869	161,728	18,653	6,274
1979 ..	324,261	96,273	36,540	165,045	19,022	7,381
1980 ..	334,235	100,478	36,986	170,963	19,437	6,371
1981 ..	342,873	104,677	37,413	174,753	19,427	6,603
1982 ..	348,980	106,147	37,372	179,579	19,392	6,490
1983 ..	353,414	108,761	35,586	183,249	19,304	6,514
1984 5/	359,107	111,767	35,545	185,657	19,294	6,844
1985 ..	364,436	114,548	35,681	187,905	19,280	7,022

1/ As of April 1.

2/ As indicated by the number of taxpayers claiming home exemptions. The number of owner occupied housing units reported by the U.S. Census of Housing is somewhat higher than the corresponding number based on taxpayer home exemptions, chiefly because of differences in definitions. Data for 1977-1985 refer to January 1; data for 1970-1976, to July 1.

3/ Calculated as a residual after accounting for the known components, some of which pertain to dates other than April 1, and thus not attributable to any specific date.

4/ As of April 1. Data include housing units leased from private owners.

5/ Revised from Data Book 1984, table 615.

Source: Hawaii State Department of Planning and Economic Development, Housing Unit Estimates for Hawaii, 1970-1985 (Statistical Report 177, July 23, 1985), table 1.

Table 582.-- HOUSING UNITS STANDING, BY COUNTIES: ANNUALLY, 1970 TO 1985

[As of April 1. Data include condominium units occupied or intended for occupancy by nonresidents]

Year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui
1970 ..	216,774	174,742	42,032	18,972	9,021	14,039
1971 ..	228,749	184,101	44,648	20,061	9,298	15,289
1972 ..	238,770	190,973	47,797	21,648	9,555	16,594
1973 ..	250,742	198,970	51,772	23,578	10,092	18,102
1974 ..	266,828	210,940	55,888	25,282	10,700	19,906
1975 ..	284,120	223,647	60,473	26,694	11,347	22,432
1976 ..	298,339	232,669	65,670	28,131	11,934	25,605
1977 ..	306,989	237,571	69,418	29,453	12,433	27,532
1978 ..	315,513	243,103	72,410	30,579	12,841	28,990
1979 ..	324,261	247,465	76,796	32,283	13,610	30,903
1980 ..	334,235	252,038	82,197	34,215	14,828	33,154
1981 ..	342,873	254,969	87,904	36,180	16,314	35,410
1982 ..	348,980	256,967	92,013	37,738	17,081	37,194
1983 ..	353,414	259,574	93,840	38,702	16,937	38,201
1984 1/	359,107	262,902	96,205	39,762	17,539	38,904
1985 ..	364,436	266,127	98,309	40,820	17,979	39,510

1/ Revised from *Data Book 1984*, table 617.

Source: Hawaii State Department of Planning and Economic Development, *Housing Unit Estimates for Hawaii, 1970-1985* (Statistical Report 177, July 23, 1985), table 2.

Table 583.-- TENURE AND CONTROL OF HOUSING UNITS, BY COUNTIES: 1985

[Data include condominium units occupied or intended for occupancy by nonresidents]

County	All housing units 1/	Owner occupied units 2/		Renter occupied and vacant units 3/		
		Land owned	Land leased	Private 4/	Federal 1/	State and County 1/
State total	364,436	114,548	35,681	187,905	19,280	7,022
City and County of Honolulu	266,127	78,320	33,672	129,777	19,138	5,220
County of Hawaii	40,820	17,652	1,121	21,000	50	997
County of Kauai	17,979	6,617	224	10,747	64	327
County of Maui	39,510	11,959	664	26,381	28	478

1/ As of April 1.

2/ As indicated by the number of taxpayers claiming home exemptions, as of January 1.

3/ Data for both Federal and State agencies include housing units leased by these agencies from private owners. All data are as of April 1.

4/ Calculated as a residual after accounting for the known components, some of which pertain to dates other than April 1, and thus are not attributable to any specific date.

Source: Hawaii State Department of Planning and Economic Development, Housing Unit Estimates for Hawaii, 1970-1985 (Statistical Report 177, July 23, 1985), table 4.

Table 584.-- HOUSING UNITS, RESIDENT AND NONRESIDENT, BY COUNTIES: 1980 AND 1985

County	All housing units 1/		Resident units		Nonresident units 2/	
	1980	1985	1980	1985	1980	1985
State total .	334,235	364,436	322,598	342,632	11,637	21,804
Honolulu	252,038	266,127	247,152	257,111	4,886	9,016
Hawaii	34,215	40,820	33,594	38,541	621	2,279
Kauai	14,828	17,979	13,395	15,903	1,433	2,076
Maui	33,154	39,510	28,457	31,077	4,697	8,433

1/ As of April 1.

2/ Condominium units in rental pools, intended for transient occupancy, based on February data.

Source: Hawaii State Department of Planning and Economic Development, Housing Unit Estimates for Hawaii, 1970-1985 (Statistical Report 177, July 23, 1985), table 3.

Table 585.-- OCCUPIED HOUSING UNITS OR HOUSEHOLDS: 1970 TO 1984

[In thousands. Unless otherwise specified, as of July 1]

Year	Number	Year	Number	Year	Number
1970 1/	203	1975	252	1980 1/	294
1971	216	1976	261	1981	303
1972	226	1977	269	1982	309
1973	235	1978	277	1983	315
1974	243	1979	287	1984	324

1/ Census count as of April 1.

Source: 1970-1979 from Hawaii State Department of Planning and Economic Development, The Population of Hawaii, 1970-1984 (Statistical Report 173, February 2, 1985), table 9; 1980-1984 from U.S. Bureau of the Census, "Estimates of Households, for States: 1981 to 1984," Current Population Reports, Population Estimates and Projections, Series P-25, No. 974, August 1985.

Table 586.-- CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU: 1970, 1976, 1979, AND 1983

Subject	1983	1979	1976	1970
All housing units	262,900	248,100	219,600	174,200
TENURE AND VACANCY STATUS				
All year-round housing units	262,800	247,900	219,300	174,100
Occupied	245,800	231,000	200,400	164,800
Owner occupied	120,600	117,200	96,100	74,200
Percent	49.0	50.7	47.9	45.0
Cooperatives and condominiums	21,500	20,700	13,900	(NA)
Renter occupied	125,200	113,800	104,300	90,600
Vacant year-round 1/	17,000	16,900	18,900	9,300
For sale only	1,200	900	5,100	1,100
Homeowner vacancy rate	0.9	0.8	5.0	1.5
For rent	6,200	7,300	6,600	4,500
Rental vacancy rate	4.7	6.0	6.0	4.7
Other vacant 1/	9,500	8,800	7,200	3,700
STRUCTURAL CHARACTERISTICS				
Units in structure: percent 1, detached	47.5	50.9	52.5	56.7
Year built: percent 1939 or earlier	9.8	11.1	12.6	15.7
Plumbing facilities: percent lacking some or all	0.8	1.5	1.6	3.0
Bathrooms: percent 2 or more	34.7	34.4	32.3	26.4
Kitchen facilities: percent incomplete or shared	2.1	2.1	2.7	2.9
Rooms: median	4.7	4.7	4.7	4.6
Bedrooms: percent 3 or more	50.4	51.8	53.5	50.9
Heating equipment: percent none	98.0	97.4	97.1	95.5
Air conditioning: percent none	82.0	81.3	81.8	86.7
Basement: percent none	89.3	91.4	92.1	(NA)
Public sewer: percent not linked	8.6	8.4	11.2	14.4
OCCUPANCY CHARACTERISTICS				
Persons per occupied unit	3.08	3.18	3.30	3.60
Percent 1.01 or more persons per room:				
Owner occupied	5.6	6.4	7.5	15.5
Renter occupied	10.9	11.2	12.1	22.0
Percent moved into unit past 12 months:				
Owner occupied	5.1	9.2	8.6	(NA)
Renter occupied	30.4	34.5	39.8	(NA)

Continued on next page.

Table 586.-- CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU: 1970, 1976, 1979 AND 1983 -- Con.

Subject	1983	1979	1976	1970
FINANCIAL CHARACTERISTICS				
Median income of families and primary individuals:				
Owner occupied	$38,000	$28,900	$23,600	$14,900
Renter occupied	$16,000	$12,800	$11,000	$8,000
Owner occupied 1-unit structures:				
Median value	$163,400	$125,600	$79,600	$38,400
Median value-income ratio	4.1	4.2	3.1	2.6
Median selected monthly housing costs --				
Units with a mortgage	$617	$474	$381	(NA)
Units with no mortgage	$157	$102	$81	(NA)
Renter occupied:				
Median gross rent	$413	$278	$234	$141
Nonsubsidized units	$425	$288	$241	(NA)
Gross rent as percent of income	31	26	26	22
Nonsubsidized	31	26	27	(NA)
Median contract rent	$372	$254	$216	$132

NA Not available.

1/ Includes units rented or sold but not occupied, units held for occasional use, and units occupied entirely by persons with usual place of residence elsewhere.

Source: U.S. Bureau of the Census, Annual Housing Survey: 1983, Honolulu, Hawaii, SMSA (Current Housing Reports, H-170-83-48, June 1985), Part A, tables A-1 and A-2.

Table 587.-- GENERAL HOUSING CHARACTERISTICS, BY COUNTIES: 1980

Subject	State total	City and County of Honolulu	Other counties 1/		
			Hawaii	Kauai	Maui
Persons in occupied units	925,092	725,865	90,436	38,679	70,008
Per occupied unit	3.15	3.15	3.09	3.22	3.11
Total housing units	334,235	252,038	34,215	14,828	33,033
Year-round housing units:					
Number	332,213	250,866	33,954	14,544	32,728
Median rooms	4.4	4.3	4.7	4.6	3.9
One unit at address (percent) ..	59.5	56.6	76.1	81.1	54.9
Lacking complete plumbing for exclusive use (percent)	2.3	1.5	7.0	4.8	2.9
Occupied housing units:					
Number	294,052	230,214	29,237	12,020	22,510
With 1.01 or more persons per room (percent)	15.3	15.5	13.0	15.2	16.4
Owner-occupied units:					
Number	151,954	114,831	17,731	6,429	12,963
Percent of occ. units	51.7	49.9	60.6	53.5	57.6
Median value 2/ ($1,000)	118.1	129.5	71.2	89.7	112.1
Renter-occupied units:					
Number	142,098	115,383	11,506	5,591	9,547
Median contract rent 3/ (dollars)	271	276	220	176	306
Vacant units, total 4/	38,161	20,652	4,717	2,524	10,218
For sale only	2,153	1,321	455	98	278
Homeowner vacancy rate	1.4	1.1	2.5	1.5	2.1
For rent	16,289	9,002	1,883	1,490	3,913
Rental vacancy rate	10.3	7.2	14.1	21.0	29.1
Rented or sold, awaiting occupancy	4,518	2,415	835	321	946
Held for occasional use	4,409	2,311	853	318	906
Other vacant	10,792	5,603	691	297	4,175
Condominium units, total	71,708	56,390	3,072	1,853	10,393
Owner-occupied	24,730	23,474	298	86	872
Renter-occupied	22,053	19,812	726	154	1,361
Vacant 4/	24,925	13,104	2,048	1,613	8,160

Footnotes and source on next page.

Table 587.-- GENERAL HOUSING CHARACTERISTICS, BY COUNTIES: 1980 -- Con.

1/ Kalawao County (121 housing units), although included in the State total, is not shown separately in this table.

2/ Estimated market value of property (house and lot), for one-family houses on less than 10 acres. The median value of owner-occupied condominium units was $98,600.

3/ Excluding no cash rent.

4/ Units temporarily occupied, or intended for occupancy, entirely by persons who have a usual residence elsewhere are classified as vacant. Shared ownership or time-sharing condominiums are classified as "vacant, held for occasional use."

Source: U.S. Bureau of the Census, 1980 Census of Housing, General Housing Characteristics, Hawaii, HC80-1-A13 (July 1982), tables 1, 5, 7, 46 and 48.

Table 588.-- HOUSING UNITS, BY OCCUPANCY, AND POPULATION IN HOUSING UNITS, BY NUMBER OF STORIES: 1980

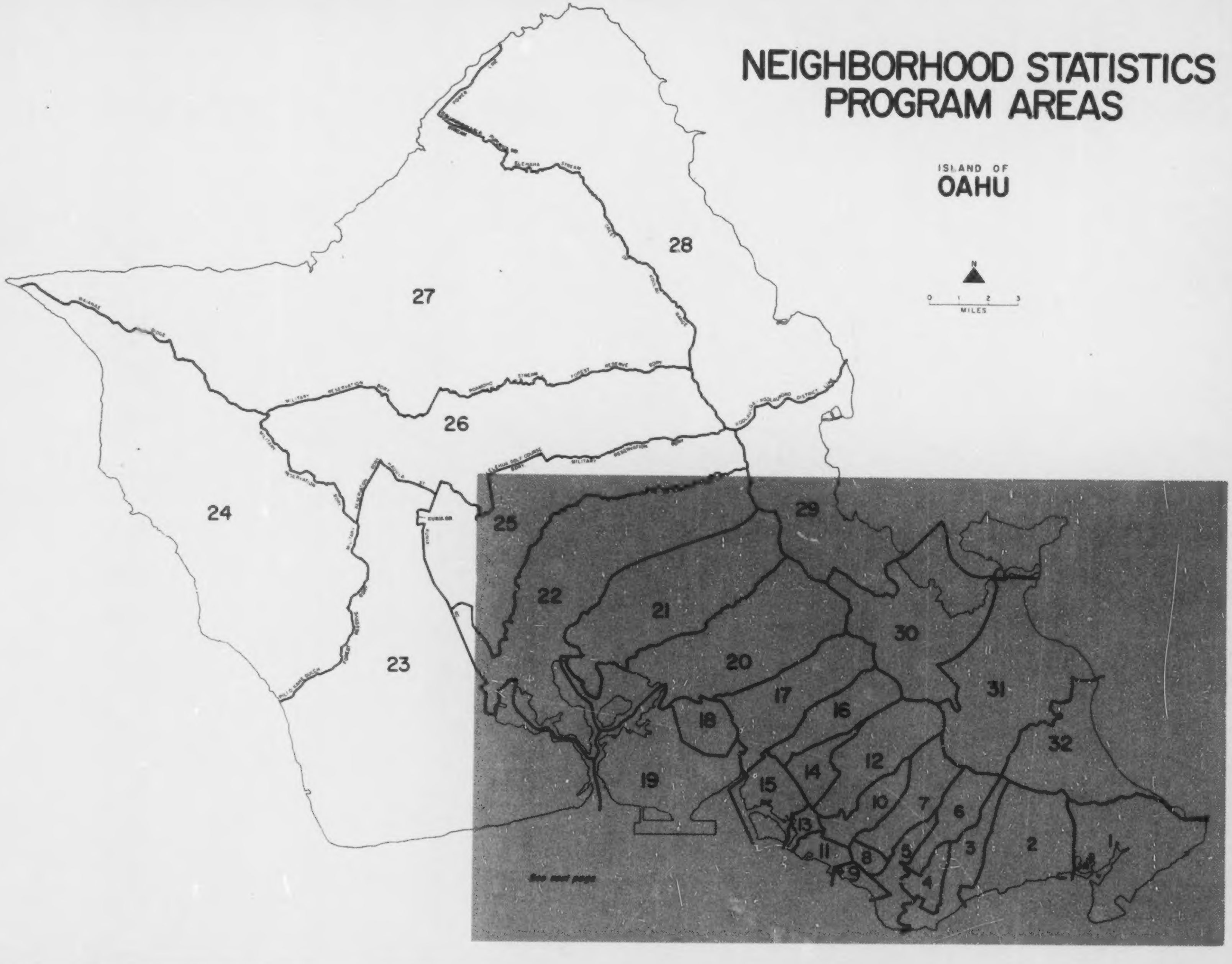
Stories in structure	Year-round housing units			Population in housing units	
	Total	Occupied	Vacant or nonresident	Total	Per occupied housing unit
All structures 1/ ..	335,140	294,940	40,200	929,920	3.15
1 to 3	273,260	250,240	23,020	840,300	3.36
4 to 6	14,780	10,200	4,580	22,320	2.19
7 to 12	12,920	9,860	3,060	18,620	1.89
13 or more	34,180	24,640	9,540	48,680	1.98

1/ Excludes group quarters and population in group quarters.

Source: U.S. Bureau of the Census, Census of Population and Housing, 1980: Public Use Microdata Sample A - 5 Percent (Hawaii), special tabulation by DPED.

NEIGHBORHOOD STATISTICS PROGRAM AREAS

ISLAND OF
OAHU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POAMOHO STREAM
FOREST RESERVE BDRY.
KOOLAULOA - KOOLAUPOKO DISTRICT LINE
KOOLAU RANGE
KEMOO GOLF COURSE BDRY.
MILITARY RESERVATION BDRY.
KAUKONAHUA STREAM
KUNIA RD.
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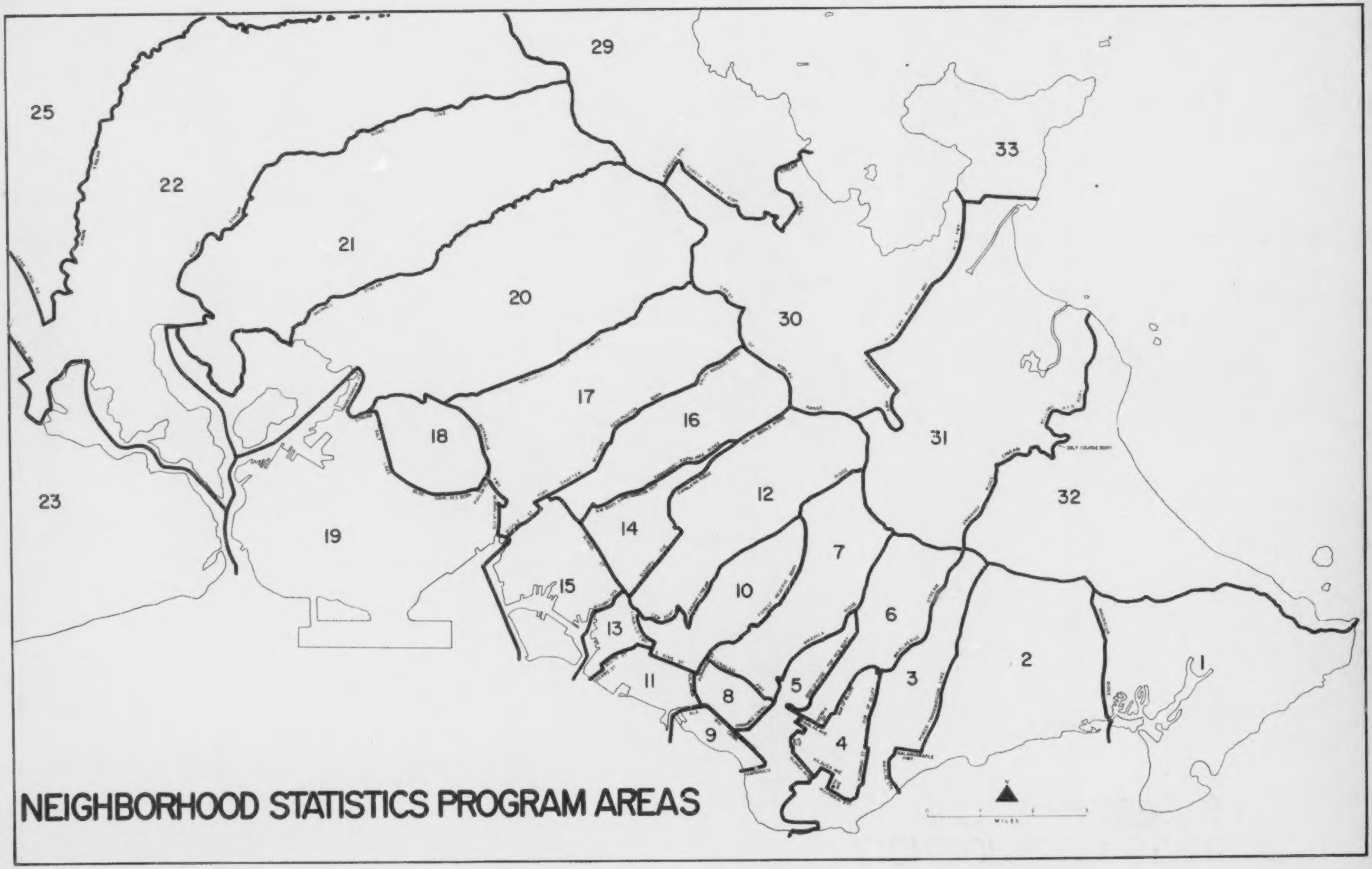
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NEIGHBORHOOD STATISTICS PROGRAM AREAS

Table 589.-- HOUSING CHARACTERISTICS OF NEIGHBORHOODS, FOR OAHU: 1980

Neighborhood (see maps on pp. 547-548)	Year-round housing units		Occupied housing units		Owner occupied units: 1/ median value ($1,000)	Renter occupied units: median gross rent (dollars)
	Number	Percent in one-unit structures	Average household size	Percent owner occupied		
Oahu total	250,864	47.1	3.15	49.9	130.4	315
1 Hawaii Kai	7,921	75.5	3.37	83.2	170.5	500+
2 Kuliouou	4,517	87.1	3.27	85.1	180.0	475
3 Waialae-Kahala ...	4,104	72.8	2.95	79.1	200+	500+
4 Kaimuki	6,406	73.3	3.05	62.3	138.7	330
5 Diamond Head/ Kapahulu	8,442	41.7	2.66	50.5	131.8	311
6 Palolo	4,176	63.6	3.41	55.2	110.3	285
7 Manoa	6,821	58.1	2.89	59.6	178.1	352
8 McCully/Moiliili .	13,310	7.7	2.17	27.5	111.2	285
9 Waikiki	18,150	1.2	1.76	29.8	59.6	360
10 Makiki/Tantalus ..	14,937	9.2	2.01	34.3	194.7	315
11 Ala Moana/Kakaako	6,273	3.1	1.80	31.3	110.4	310
12 Nuuanu/Punchbowl .	5,555	58.4	2.98	54.9	131.8	312
13 Downtown	4,770	1.5	1.85	20.8	90.0	286
14 Liliha/Kapalama ..	6,565	55.1	3.16	54.2	127.3	276
15 Kalihi/Palama	11,152	22.3	3.54	24.7	97.5	226
16 Kalihi Valley	3,981	54.0	4.44	56.2	109.5	272
17 Moanalua	3,454	52.9	3.63	43.6	152.3	233
18 Aliamanu/Salt Lake	9,757	33.5	3.35	40.6	152.5	355
19 Airport	5,739	44.7	3.48	0.5	73.6	275
20 Aiea	9,236	52.5	3.28	58.4	129.3	399
21 Pearl City	11,362	80.2	3.78	76.4	127.2	429
22 Waipahu	8,519	60.4	4.03	54.3	118.7	346
23 Ewa	9,322	73.3	3.87	51.0	110.0	282
24 Waianae Coast	9,524	53.8	3.93	51.4	77.0	313
25 Mililani/Waipio ..	7,989	62.6	3.35	76.6	136.3	404
26 Wahiawa	10,677	44.6	3.40	26.6	96.7	266
27 North Shore	4,415	67.9	3.25	40.5	91.1	324
28 Koolauloa	3,462	60.6	3.77	35.6	82.8	275
29 Kahaluu	3,613	68.2	3.50	66.2	139.1	390
30 Kaneohe	10,033	75.1	3.59	72.0	122.5	393
31 Kailua	12,562	80.2	3.38	72.3	138.2	426
32 Waimanalo	2,241	78.8	4.26	63.5	68.5	255
33 Mokapu	1,889	38.0	3.55	0.1	...	238

1/ Limited to owner occupied one-family houses on less than 10 acres.

Source: Bureau of the Census, 1980 Census of Population and Housing, Neighborhood Statistics Program, Hawaii, PHC80-SP1-13 (1983).

Table 590.-- AIR CONDITIONING IN HOUSING UNITS, BY ISLANDS: 1980

Air conditioning	State total	Oahu	Other islands
Year-round housing units	332,205	250,864	81,341
No air conditioning	271,934	198,012	73,922
Central system	19,340	16,204	3,136
1 or more individual room units	40,931	36,648	4,283

Source: U.S. Bureau of the Census, 1980 Census of Housing, Detailed Housing Characteristics, Hawaii, HC80-1-B13 (May 1983), table 61.

Table 591.-- HAWAII HOUSING AUTHORITY OPERATIONS: 1982 TO 1984

Subject	1982	1983	1984
Total units owned by HHA, June 30	5,795	5,822	5,742
Occupied	5,754	5,650	5,671
Population in units, June 30	17,876	18,171	18,257
Per occupied unit	3.1	3.2	3.2
Total assets, June 30 ($1,000) 1/	405,650	407,540	430,087
Operating revenues of HHA, fiscal year: 2/			
Gross ($1,000)	12,142	12,550	11,455
Net ($1,000)	1,854	1,287	-977
Operating revenues per unit per month, fiscal year (dollars) 2/	291.29	220.80	166.24
Rent charged per unit per month, fiscal year (dollars) 2/	145.34	150.09	146.59

1/ Replacement cost estimate at $70,000 per unit.
2/ Federal projects only; revenue amounts include Federal subsidies.
Source: Hawaii Housing Authority, data provided February 11, 1985.

Table 592.-- HOUSING VACANCY SURVEYS OF OAHU: 1977 TO 1983

[Sponsored by the Federal Home Loan Bank of Seattle and conducted by U.S. mail carriers. Data for 1977-1981 have been adjusted to include newly completed but vacant units, omitted from base in earlier reports. No survey was published for 1984]

Year and month	Total units	Vacant units: Used and new: Number	Vacant units: Used and new: Percent	Vacant units: Used	Vacant units: New	Units under construction
1977: April 1/ ...	215,923	5,472	2.5	3,399	2,073	2,228
1978: March	226,103	5,178	2.3	3,312	1,866	4,820
1979: May	233,631	4,081	1.7	2,584	1,497	4,754
1980: March	238,028	5,104	2.1	3,039	2,065	3,980
1981: March	240,354	5,235	2.2	3,306	1,929	2,400
1982: March	244,077	4,130	1.7	2,665	1,465	1,087
1983: March	241,355	3,253	1.3	2,558	695	2,002
TYPE OF UNIT: 1983						
Single-family units	116,126	678	0.6	396	282	497
Multi-family units	125,229	2,575	2.1	2,162	413	1,505
Mobile homes	-	-	...	-	-	-

1/ Dated March 1977 in the original report but April 1977 thereafter. For survey data for 1955-1976, see Historical Statistics of Hawaii, p. 397.

Source: Federal Home Loan Bank of Seattle, Honolulu Housing Vacancy Survey (annual), as adjusted to 1982-1983 definitions.

Table 593.-- VACANCY RATES FOR HOUSING ON OAHU AND THE NEIGHBOR ISLANDS: ANNUAL AVERAGES, 1970 TO 1984

[Based on housing units sampled for the Hawaii Health Surveillance Program survey. Units occupied by households temporarily absent were classified as occupied. The base excludes units occupied by transients]

Year	Units sampled			Percent vacant		
	State total	Oahu	Other islands	State average	Oahu	Other islands
1970 1/ ..	6,107	3,217	2,890	3.2	3.5	3.0
1971	5,370	2,493	2,877	3.6	3.2	5.1
1972	7,177	5,423	1,754	3.9	3.5	5.4
1973	6,735	5,456	1,279	3.1	2.6	5.0
1974	6,301	4,982	1,319	4.1	3.9	4.7
1975	6,632	5,360	1,272	5.6	5.2	6.9
1976 2/ ..	2,440	1,817	623	5.1	5.0	5.6
1977	6,899	4,526	2,373	5.9	6.1	5.1
1978	6,690	4,102	2,588	4.0	3.8	4.5
1979	5,936	3,519	2,417	3.2	2.8	4.4
1980	6,499	3,613	2,886	4.2	3.9	5.0
1981	6,174	3,195	2,979	4.8	4.4	5.8
1982	6,509	3,468	3,041	3.9	3.4	5.4
1983	6,139	3,147	2,992	3.8	3.1	5.8
1984 3/ ..	7,238	3,827	3,411	4.5	3.1	6.5

1/ Neighbor Island data based on last 9 months of 1970.

2/ Survey suspended during the first 6 months of 1976.

3/ Sample excluded housing units on military bases, included in other years.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, records.

Table 594.-- PERSONS AND HOUSEHOLD HEADS, TOTAL AND CIVILIAN, CHANGING RESIDENCE IN PAST YEAR: 1974 TO 1984

[Excludes persons in institutions or barracks, in Kalawao, or on Niihau]

Year surveyed	Movers		Percent moving 1/	
	Total	Civilians 2/	Total	Civilians 2/
Persons 1 year old and over:				
1974	133,781	90,647	16.6	12.7
1975	139,910	96,950	17.0	13.3
1976	139,922	110,100	16.6	14.4
1977	153,357	112,867	18.3	15.3
1978	148,048	110,451	15.5	14.7
1979	139,025	103,705	16.2	13.3
1980	122,691	89,981	13.5	11.1
1981	137,717	105,767	15.0	12.8
1982	147,684	115,685	15.8	13.8
1983	135,496	96,824	14.1	11.4
1984 3/	140,509	101,730	14.4	11.6
Household heads:				
1974	42,602	29,399	17.9	13.8
1975	46,900	32,633	18.9	14.8
1976	49,456	39,738	18.8	16.5
1977	53,482	40,102	19.8	16.6
1978	48,875	36,968	18.9	16.0
1979	45,908	34,069	17.2	14.0
1980	40,654	29,370	14.3	11.5
1981	48,264	36,780	16.5	14.0
1982	51,817	39,870	17.2	14.7
1983	45,692	32,155	14.7	11.7
1984 3/	45,798	34,637	15.3	12.8

1/ Based on number reporting place of residence one year earlier.

2/ Based on military status when surveyed. Excludes members of the armed forces and their dependents.

3/ Persons in households living on military bases were omitted from the 1984 survey, although included in other years. For purposes of this table, such persons were assumed to have the same response distribution as members of military households living in the civilian community.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, records.

Table 595.-- MOBILITY OF HOUSEHOLD HEADS, BY MILITARY STATUS AND COUNTIES: 1984

[Based on place of residence one year prior to survey date. Expanded from a sample of 5,787 households. Excludes persons in institutions or military barracks, in Kalawao, or on Niihau. Persons in households living on military bases were omitted from the 1984 survey, although included in other years. For purposes of this table, such persons were assumed to have the same response distribution as members of military households living in the civilian community]

Island and military status of household head 1/	All household heads	Non-movers	Movers		Mobility not reported
			Number	Percent 2/	
State total	301,286	252,978	45,798	15.3	2,510
Military	29,292	17,503	11,161	38.9	628
Civilian	271,853	235,475	34,637	12.8	1,741
Status not reported	141	-	-	-	141
Oahu	228,322	192,336	34,124	15.1	1,862
Military	29,160	17,470	11,062	38.8	628
Civilian	199,021	174,866	23,062	11.7	1,093
Status not reported	141	-	-	-	141
Other islands 3/	72,964	60,642	11,674	16.1	648
Hawaii	33,600	27,317	6,154	18.3	129
Kauai	13,497	11,837	1,442	10.7	29
Maui, Molokai, and Lanai	25,854	21,484	4,078	16.0	292

1/ Military status of household head at the time of the survey.
2/ Based on number reporting.
3/ Includes island of residence not reported.
Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 596.-- BUILDING OCCUPANCY, OFFICE AND RETAIL, FOR HONOLULU: MAY AND OCTOBER 1984

[Floor area occupied as percent of total floor area of offices surveyed. Based on survey of 44 buildings in May and 62 buildings in October]

Building characteristics	Competitive office		Retail	
	May 1984	October 1984	May 1984	October 1984
All buildings surveyed .	83.8	84.9	86.8	92.6
Location:				
Downtown	80.4	82.5	93.6	93.7
Downtown to Waikiki	86.2	86.4	84.7	86.7
Waikiki	94.7	97.2	89.6	93.4
Floor space:				
Over 100,000 square feet ..	81.5	83.0	86.7	90.3
40,000-100,000 square feet	96.7	91.9	85.5	98.3
Under 40,000 square feet ..	91.2	84.4	100.0	100.0
Age of building:				
Over 25 years old	99.6	96.9	38.4	91.0

Source: Building Owners and Managers Association, Hawaii, Newsletter, December 1984.

Table 597.-- MULTIPLE LISTING SERVICE LISTINGS AND SALES, FOR OAHU: 1957 TO 1984

[Data include 1-family and condominium properties for all years and cooperative, commercial/industrial, business opportunities, income, and vacant properties through 1977 and from 1982]

Year	Number listed	Sold		
		Number	Percent	Average selling price (dollars)
1957	1,805	924	51.2	19,694
1958	2,064	936	45.3	21,365
1959	1,666	967	58.0	23,560
1960	1,868	795	42.6	27,808
1961	1,847	541	29.3	29,144
1962	1,522	515	33.8	29,332
1963	1,743	624	35.8	30,323
1964	1,934	882	45.6	32,951
1965	1,854	910	49.1	35,727
1966	2,137	813	38.0	35,652
1967	2,124	963	45.3	38,810
1968	2,375	1,133	47.7	42,546
1969	2,606	1,422	54.6	46,333
1970	3,415	1,693	49.6	44,755
1971	4,165	2,157	51.8	58,651
1972	6,022	4,555	75.6	60,810
1973	7,845	5,348	68.2	70,769
1974	10,933	4,821	44.1	70,918
1975	11,271	4,174	37.0	71,485
1976	10,627	4,311	40.6	75,483
1977	10,597	5,523	52.1	81,213
1978-1979 1/ .	9,926	5,714	57.6	82,076
1979-1980 1/ .	13,506	8,009	59.3	103,698
1980-1981 1/ .	14,090	5,553	39.4	124,897
1981 2/	13,799	3,735	27.1	144,227
1982 3/	13,484	2,948	21.9	143,046
1983 3/	13,556	4,868	35.9	142,914
1984 4/	13,258	4,732	35.7	141,888

1/ Year ended February 28 or 29.
2/ Data cover period of March through December only.
3/ Revised from Data Book 1984, table 633.
4/ Data cover period of January 1 through December 3 only.

Source: Honolulu Board of Realtors, records.

Table 598.-- MULTIPLE LISTING SERVICE LISTINGS AND SALES OF RESIDENTIAL AND CONDOMINIUM UNITS, FOR OAHU: 1974 TO 1984

[Data include single-family structures for residential units and condominiums townhouses, and duplexes for condominium units]

Year	Number of units listed		Number of units sold	
	Residential	Condominium	Residential	Condominium
1974	4,826	4,912	2,246	2,302
1975	4,821	5,323	2,265	1,715
1976	4,791	4,903	2,472	1,650
1977	4,452	5,422	2,985	2,285
1978-1979 1/ ...	3,522	6,404	2,139	3,575
1979-1980 1/ ...	4,105	9,401	2,253	5,756
1980-1981 1/ ...	4,352	9,738	1,820	3,733
1981	2/ 4,012	2/ 8,708	1,532	2,436
1982	4,445	8,259	1,268	1,606
1983 3/	4,463	8,185	2,022	2,686
1984 4/	4,511	7,654	1,951	2,542

Year	Percent of listed units sold		Average selling price (dollars)	
	Residential	Condominium	Residential	Condominium
1974	46.5	46.9	83,611	54,956
1975	47.0	32.2	83,797	55,596
1976	51.6	33.7	85,691	59,842
1977	67.0	42.1	94,028	61,484
1978-1979 1/ ...	60.7	55.8	114,264	67,783
1979-1980 1/ ...	54.9	61.2	151,775	84,880
1980-1981 1/ ...	41.8	38.3	169,107	103,342
1981	2/ 34.1	2/ 24.9	191,597	111,056
1982	28.5	19.4	184,227	107,185
1983 3/	45.3	32.8	188,742	104,895
1984 4/	43.2	33.2	187,270	101,448

1/ Year ended February 28 or 29.

2/ Data cover period of March through December only.

3/ Revised from Data Book 1984, table 634.

4/ Data cover period of January 1 through December 3 only.

Source: Honolulu Board of Realtors, records.

Table 599. -- NUMBER OF DEEDS FILED AND RECORDED AND APPROXIMATE VALUE OF LAND CONVEYED: 1980 TO 1985

Year ended June 30	Number of deeds filed and recorded	Approximate value of land conveyed (dollars) 1/
1980	28,996	4,529,726,150
1981	23,213	3,960,013,179
1982	20,372	2,892,628,137
1983	22,943	3,027,487,507
1984	26,938	3,585,325,291
1985	20,490	3,719,658,586

1/ Data include leases, agreement of sales assignments; subleases, etc., as well as deeds.

Source: Hawaii State Department of Land and Natural Resources, Bureau of Conveyances, records.

Table 600.-- APPROXIMATE VALUE OF LAND TRANSFERS, BY COUNTIES: 1982 TO 1984

[In dollars. For calendar years. Totals include leases, agreement of sales assignments, subleases, etc., as well as deeds]

County	1982	1983	1984
State total	3,011,059,604	3,272,167,005	3,764,562,638
Honolulu	1,911,710,643	2,333,881,897	2,549,352,254
Maui	602,463,697	423,712,237	610,384,923
Hawaii	293,310,474	359,695,067	467,051,984
Kauai	203,574,790	154,877,804	137,773,477

Source: Hawaii State Department of Land and Natural Resources, Bureau of Conveyances, records.

Table 601.-- CHARACTERISTICS OF SINGLE-FAMILY AND MULTI-FAMILY DEVELOPMENTS, FOR OAHU: 1979 TO 1984

Year	Single-family developments				Multi-family developments 1/		
	Average area (square feet)		Units sold	Average price (dollars)	Average living area (sq. ft.)	Units sold	Average price (dollars)
	House	Lot					
1979 ..	1,493	4,753	1,696	114,731	1,153	346	87,480
1980 ..	1,291	4,631	813	131,693	1,190	740	93,428
1981 ..	1,389	5,698	354	157,026	1,215	278	103,310
1982 ..	1,232	5,037	308	137,267	1,198	134	114,669
1983 ..	1,173	4,380	772	135,357	740	500	85,064
1984 ..	1,261	4,613	1,176	140,700	720	504	81,373

1/ Four stories or under.

Source: Bank of Hawaii, Construction in Hawaii, 1985 (1985), pp. 9 and 10.

Table 602.-- MORTGAGES, FORECLOSURES, AND AGREEMENTS OF SALE: 1979 TO 1984

Year	Mortgages recorded			Foreclosures 1/ ($1,000)	Mortgage assignments ($1,000)	Agreements of sale ($1,000)
	Number	Total value ($1,000)	Average value (dollars)			
1979 ...	38,309	3,201,376	83,567	335	3,918	1,133,166
1980 ...	27,551	3,034,349	110,135	767	6,246	1,140,453
1981 ...	23,156	2,285,147	98,685	1,233	3,097	1,041,662
1982 ...	18,773	2,478,992	132,051	22,674	3,143	639,263
1983 ...	29,060	3,528,800	121,431	24,443	(NA)	406,327
1984 ...	28,200	3,136,606	111,227	47,844	4,291	345,120

NA Not available.

1/ Commercial and residential projects. 1983 figure is revised.

Source: Data from Title Guaranty of Hawaii and Hawaii State Bureau of Conveyances, cited in the Bank of Hawaii, Construction in Hawaii, 1985 (1985), p. 26.

Table 603.-- REAL ESTATE MORTGAGE LOANS OUTSTANDING, BY TYPE OF LENDING INSTITUTION: 1980 TO 1984

[Thousands of dollars. As of December 31]

Year	All institutions	Banks	Savings, building and loan associations	Trust companies 1/	Industrial loan companies	Insurance companies
1980	7,131,368	1,493,470	3,708,523	77	502,964	1,426,334
1981	7,498,041	1,585,846	3,949,941	77	603,720	1,458,457
1982	7,730,172	1,620,947	3,878,564	313	779,332	1,451,016
1983	7,553,924	1,714,698	3,803,628	116	589,574	1,445,908
1984	(NA)	1,737,973	3,885,551	435	644,336	(NA)

NA Not available.

1/ Excluding mortgage loans held in trust and agency accounts.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Financial Institutions and Insurance Division.

Table 604.-- REAL ESTATE LICENSEES: OCTOBER 1985

Type of licensee	Broker	Salesman	Corporation	Partnership	Branch office
Total	5,027	14,569	1,140	17	93
Active, residents	4,450	8,461	1,088	14	93
Inactive, residents	571	6,079	52	3	-
Inactive, nonresidents .	6	29	-	-	-

Source: Hawaii State Department of Commerce and Consumer Affairs, Real Estate Commission, records.

Table 605.-- CHARACTERISTICS OF SINGLE-FAMILY HOME PURCHASES, FOR OAHU: SECOND QUARTER, 1983

[Based on a sample of conventional mortgage loans made by savings associations on single-family homes]

Subject	Amount
Borrower characteristics:	
Median age (years)	42.0
1 or 2 person households (percent)	69.2
Married (percent)	76.9
First-time buyers (percent)	31.6
Median annual income of household (dollars) 1/	52,740
Second income 2/	71.0
Home characteristics:	
Median purchase price (dollars) 3/	105,000
Age: New (percent)	7.7
25 years old or more (percent)	7.7
Median size (square feet)	1,008
Condominium (percent)	53.8
Median monthly housing expense (dollars)	950
Median downpayment (dollars)	21,599
Housing expense exceeding 25 percent of household income (percent)	41.0

1/ The U.S. median was $35,987.

2/ Percent of households with two adults in which income contributed by a second earner accounted for 10 percent or more of total household income.

3/ The U.S. median was $65,000.

Source: United States League of Savings Institutions, Homeownership: Celebrating the American Dream (1984), pp. 61 and 95.

Table 606.-- CHARACTERISTICS OF HOMES INSURED UNDER FHA SECTIONS 203 AND 245: 1983 AND 1984

Subject	Proposed homes		Existing homes	
	Sec. 203	Sec. 245 1/	Sec. 203	Sec. 245 1/
1983				
Volume of FHA-insured mortgages:				
Number	125	218	1,771	270
Amount ($1,000)	12,260	20,218	170,967	27,432
Average:				
Property value	(S)	(S)	$99,530	$105,603
Market price of site	(S)	(S)	$40,132	$48,881
Percent of value	(S)	(S)	40.8	46.4
Improved living area 2/ (square feet)	(S)	(S)	1,104	1,000
Age of structure 3/ (years)	...	(S)	7.6	6.6
Price of site per square foot	(S)	(S)	$6.44	$9.34
Lot size (square feet)	(S)	(S)	7,624	6,345
Mortgagor's total annual income 3/	(S)	(S)	$41,250	$33,900
Monthly cost of heating and utilities	(S)	(S)	$98.80	$99.29
Sale price per square foot 2/	(S)	(S)	$75.31	$78.83
Construction cost per square foot	(S)	(S)	...	...
1984				
Volume of FHA-insured mortgages:				
Number	242	185	927	161
Amount ($1,000)	26,471	20,643	93,755	17,971
Average:				
Property value	$136,569	$137,519	$133,712	$126,149
Market price of site	$60,913	$61,580	$65,794	$57,250
Percent of value	45.0	45.0	48.9	45.3
Improved living area 2/ (square feet)	1,090	1,057	1,241	1,151
Age of structure 3/ (years)	...	...	15.1	10.7
Price of site per square foot	$16.38	$15.63	$10.18	$10.62
Lot size (square feet)	4,082	4,246	7,290	6,246
Mortgagor's total annual income 3/	(NA)	$40,625	(NA)	$34,000
Monthly cost of heating and utilities	$98.86	$97.00	$107.13	$100.70
Sale price per square foot 2/	$94.33	(NA)	$84.86	$79.44
Construction cost per square foot	$69.77	$71.75	...	...

NA Not available.
S Sample too small for reliable estimate.

Continued on next page.

Table 606.-- CHARACTERISTICS OF HOMES INSURED UNDER FHA SECTIONS 203 AND 245: 1983 AND 1984 -- Con.

1/ Graduated payment mortgage program.

2/ Data based on 1-story structures.

3/ Median rather than arithmetic mean.

Source: U.S. Department of Housing and Urban Development, *FHA Homes. Data for States and Selected Areas on Characteristics of FHA Operations under Section 203* (annual) and *FHA Homes. Data for States and Selected Areas on Characteristics of FHA Operations under Section 245, Graduated Payment Mortgage Program* (annual).

Table 607.-- ELEVATORS, ESCALATORS, AND SIMILAR FACILITIES: DECEMBER 31, 1984

Facility	State total	Oahu	Hawaii		Maui	Molo-kai	Lanai	Kauai
			Hilo	Kona				
Total	3,846	3,229	119	91	315	1	2	89
Elevators	3,287	2,731	91	88	294	-	1	82
Hydro under 9 stories	649	455	29	26	97	-	1	41
Roped, under 9 stories ...	1,143	867	53	62	128	-	-	33
9 to 18 stories	897	816	9	-	64	-	-	8
19 to 28 stories	355	350	-	-	5	-	-	-
29 to 38 stories	170	170	-	-	-	-	-	-
39 stories or more	73	73	-	-	-	-	-	-
Escalators and moving walks	264	257	6	-	1	-	-	-
Inclined lifts	10	2	3	1	2	-	1	1
Man lifts	10	10	-	-	-	-	-	-
Dumbwaiters	277	231	19	2	18	1	-	6
Handicapped lift	1	1	-	-	-	-	-	-

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupational Safety and Health, Boiler and Elevator Inspection Bureau, data provided February 7, 1985.

Table 608.-- TALLEST STRUCTURES ON OAHU, JULY 1985, AND THE NEIGHBOR ISLANDS, MAY-NOV. 1984

Island and structure	Location	Year completed	Height	
			Stories	Feet
BUILDINGS 1/				
Hawaii:				
Bayshore Towers	Hilo	1970	15	135
Maui:				
Kalana O Maui (County Bldg.)	Wailuku	1972	9	140
Royal Lahaina Hotel	Kaanapali	1970	12	132
Oahu:				
Ala Moana Hotel 2/	410 Atkinson Drive ...	1970	38	396
Ala Wai Sunset	445 Seaside Ave.	1979	44	350
Kauai:				
Kauai Surf Hotel	Lihue	1959	10	107
OTHER STRUCTURES				
Hawaii:				
Coast Guard Loran Station	Upolu Point	1958	...	625
Maui:				
KMVI Radio Tower	Wailuku	1947	...	455
Molokai:				
KAIM Radio Tower	Kalua Koi	1981	...	410
Oahu:				
VLF Antenna	Lualualei	1972	...	1,503
Kauai:				
Communication Engineers Tower	Mana	1964	...	400

1/ Shown separately for the tallest in feet and also (if different) for the tallest in number of stories.

2/ Measured to top of elevator machine room.

Source: Hawaii County Dept. of Research and Development, May 1, 1984; Maui County Dept. of Public Works, Nov. 9, 1984; City and County of Honolulu Building Dept., July 9, 1985; Kauai County Dept. of Public Works, Nov. 9, 1984.

Table 609.-- SEATING CAPACITIES OF SELECTED STADIUMS, THEATERS, CHURCHES, AND OTHER FACILITIES ON OAHU: 1984-1985

Facility type and name	Seating capacity
Stadiums and sports arenas:	
Aloha Stadium	50,000
Aiea High School Stadium	9,600
Neal Blaisdell Center Arena 1/	8,731
Leilehua High School Stadium	6,500
Waipahu High School Stadium	6,500
Brigham Young University-Hawaii Activity Center	5,000
University of Hawaii Baseball Stadium	4,312
Theaters and auditoriums:	
Neal Blaisdell Center Arena 2/	8,800
Andrews Amphitheater	4,000
Neal Blaisdell Center Concert Hall	2,158
Waikiki Shell	1,958
Hilton Hawaiian Village Dome	1,500
Waikiki 3 Theater	982
Varsity Theater #1 and # 2 (combined capacity)	651
Cinerama Theater	646
Kennedy Theater	600
Ruger Theater	507
Churches:	
Kawaiahao Church	1,300
Central Union Church (Sanctuary)	800
St. Theresa Co-Cathedral	800
St. Andrew's Cathedral	750
St. Anthony	750
Cathedral of Our Lady of Peace	700
St. Augustine	700
Star of the Sea	700

1/ Capacity in boxing configuration.
2/ Capacity in concert configuration.
Source: Compiled by the Hawaii State Department of Planning and Economic Development from the Honolulu Fire Department, Fire Prevention Bureau; Honolulu Building Department; and officials of the facilities listed.

Section 22

MANUFACTURES

This section presents statistics on the manufacturing segment of the economy, including sugar processing and pineapple canning. Additional information appears in Sections 12 and 15.

The number of manufacturing establishments in Hawaii increased from 697 in 1967 to 967 in 1982. The value added by manufacture rose from $326 million in 1967 to $410 million in 1972, $786 million in 1977, and $1,120 million in 1982. More than three-fourths of all manufacturing activity in the State in 1982 was on Oahu. Food processing -- mostly sugar and pineapple -- accounted for more than 35 percent of the value added by manufacture in 1982. Between 1982 and 1984, the general excise and use tax base increased 30 percent for sugar processing, and 7 percent for pineapple canning, but declined 2 percent for all other manufacturing. There were two pineapple canneries and 12 sugar mills in Hawaii in mid-1984. The production of canned pineapple fruit and juices in 1981 (the most recent year available) was 18 million actual cases, well below the levels of earlier years. Sugar production in 1984 amounted to 1,062,000 short tons, the most since 1971. The value of sugar production (including commercial molasses) was $393 million, compared with the record of $677 million set in 1974. Important manufactures other than food processing include apparel ($56 million in value added in 1982), printing and publishing (more than $27 million), stone, clay, and glass products ($39 million), and chemicals and allied products ($25 million).

Sources for data on this subject include the United States Census of Manufactures, most recently conducted for 1982, the Annual Survey of Manufactures, publications of the Hawaii State Department of Agriculture and Department of Taxation, and reports and records of the Hawaiian Sugar Planters' Association. Historical Statistics of Hawaii, Section 16, reviews the figures for earlier years. Statistics for the nation as a whole appear in Section 29 of the Statistical Abstract of the United States: 1985.

Table 610.-- STATISTICAL SUMMARY OF MANUFACTURES: 1967 TO 1982

[For intercensal data, 1971-1981, see Data Book 1983, table 564]

Subject	1982	1977	1972	1967
All establishments 1/ (number) ...	967	949	773	697
With 20 employees or more	237	231	238	215
All employees:				
Number (1,000)	23.6	25.0	24.8	25.4
Payroll (million dollars)	360.4	276.8	191.1	139.6
Production workers:				
Number (1,000)	16.0	17.4	17.7	19.0
Hours (millions)	29.9	31.3	33.1	35.9
Wages (million dollars)	217.5	160.5	113.7	86.9
Value added by manufacture 2/ (million dollars)	1,119.6	785.5	410.0	326.2
Cost of materials 3/ (million dollars)	2,357.5	1,176.1	548.3	399.6
Value of shipments 3/ (million dollars)	3,443.0	1,974.0	955.6	723.4
New capital expenditures (million dollars)	89.4	44.4	46.7	26.0

1/ Includes establishments with payroll at any time during the year.

2/ 1982 data not directly comparable to data for earlier years; see source for discussion.

3/ Aggregate cost of materials and value of shipments include extensive duplication since products of some industries are used as materials by others.

Source: U.S. Bureau of the Census, 1982 Census of Manufactures, Hawaii, MC82-A-12 (April 1985), table 2a.

Table 611.-- STATISTICAL SUMMARY OF MANUFACTURES, BY COUNTIES: 1982

Subject	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
All establishments 1/ (number) ...	967	780	99	25	63
With 20 employees or more	237	200	18	7	12
All employees:					
Number (1,000)	23.6	17.9	2.4	0.7	2.6
Payroll (million dollars)	360.4	279.4	37.9	12.1	30.9
Production workers:					
Number (1,000)	16.0	11.9	1.9	0.5	1.7
Hours (millions)	29.9	21.6	3.9	1.0	3.4
Wages (million dollars)	217.5	158.3	29.0	8.3	21.8
Value added by manufacture (million dollars)	1,119.6	901.5	100.6	26.6	90.8
Cost of materials 2/ (million dollars)	2,357.5	2,078.5	130.1	58.3	90.7
Value of shipments 2/ (million dollars)	3,443.0	2,947.3	229.6	84.9	181.1
New capital expenditures (million dollars)	89.4	58.4	7.5	5.9	17.6

1/ Includes establishments with payroll at any time during the year.

2/ Aggregate cost of materials and value of shipments include extensive duplication since products of some industries are used as materials by others.

Source: U.S. Bureau of the Census, 1982 Census of Manufactures, Hawaii, MC82-A-12 (April 1985), table 4.

Table 612.-- MANUFACTURES, BY SELECTED INDUSTRY GROUP AND INDUSTRY: 1982

SIC code	Industry group and industry	Number of establishments	Number of employees (1,000)	Payroll (million dollars)	Value added by manufacture (million dollars)	Value of shipments (million dollars)
	All industries	967	23.6	360.4	1,119.6	3,443.0
20	Food and kindred products ...	221	11.1	161.2	398.6	1,079.5
202	Dairy products	10	.5	10.4	20.3	68.8
203	Preserved fruits and vegetables	34	3.3	36.1	96.7	234.0
2033	Canned fruits and vegetables	9	3.1	33.6	89.3	214.5
205	Bakery products	33	1.2	18.9	41.6	70.7
206	Sugar and confectionery products	29	3.6	61.6	159.7	428.1
2061	Raw cane sugar	13	2.9	52.9	136.1	350.3
208	Beverages	12	.5	8.6	26.9	72.3
23	Apparel and other textile products	145	3.4	31.1	56.5	106.6
232	Men's and boy's furnishings	22	.8	7.5	13.1	22.9
233	Women's and misses' outerwear	78	1.7	15.7	26.3	44.6
2335	Women's and misses' dresses	62	1.4	12.8	21.1	37.3
27	Printing and publishing	177	2.5	(D)	(D)	(D)
275	Commercial printing	93	.9	14.3	27.0	44.5
28	Chemicals and allied products	21	.3	6.3	24.8	64.4
32	Stone, clay, and glass products	53	.9	19.2	38.9	80.0
327	Concrete, gypsum, and plaster products	29	.7	16.0	30.4	64.1
34	Fabricated metal products ...	42	.7	11.8	22.9	76.4

D Withheld to avoid disclosing data for individual companies; data are included in higher level totals.

Source: U.S. Bureau of the Census, 1982 Census of Manufactures, Hawaii, MC82-A-12 (April 1985), table 5.

Table 613.-- DETAILED CHARACTERISTICS OF MANUFACTURES: 1982

Item	1982
Companies 1/ .... Number	944
All establishments 2/ .... do	967
With 1 to 19 employees .... do	730
With 20 to 99 employees .... do	193
With 100 employees or more .... do	44
All employees:	
Average for year 1,000	23.6
Annual payroll .... mil dol	360.4
Production workers:	
Average for year 1,000	16.0
March .... do	15.1
May .... do	16.5
August .... do	17.6
November .... do	15.0
Hours .... millions	29.9
January to March .... do	6.7
April to June .... do	7.4
July to September .... do	8.2
October to December .... do	7.5
Wages .... mil dol	217.5
Cost of materials, etc. 3/ .... do	2,357.5
Materials, parts, containers, etc., consumed ...... do	2,050.5
Resales .... do	184.0
Fuels consumed .... do	57.2
Purchased electric energy .... do	38.0
Contract work .... do	27.7
Value added by manufacture .... do	1,119.6
Value of shipments, including resales 3/ .... do	3,443.0
Manufacturers' inventories:	
End of 1981, total .... do	499.0
End of 1982, total .... do	445.9
Capital expenditures for plant and equipment .... do	94.5
New capital expenditures .... do	89.4
New buildings and other structures .... do	42.3
New machinery and equipment .... do	47.2
Used capital expenditures .... do	5.1

1/ For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control. Figure shown excludes auxiliaries.

2/ Includes establishments with payroll at any time during year.

3/ Aggregate of cost of materials and value of shipments includes extensive duplication, since products of some industries are used as materials by others (see appendixes).

Source: U.S. Bureau of the Census, 1982 Census of Manufactures, Hawaii, MC82-A-12 (April 1985), table 3a.

Table 614.-- DEPARTMENT OF DEFENSE MANUFACTURING FACILITIES: 1977 AND 1982

[These data are not included in other 1982 Census of Manufactures reports, which cover only privately operated establishments]

Subject	1977	1982
All employees (wage board and graded):		
Number	5,500	7,200
Payroll (million dollars)	107.5	230.4
Production workers (wage board):		
Number	4,200	5,500
Hours (millions)	7.6	9.7
Wages (million dollars)	84.0	174.2
Costs (million dollars):		
Materials, supplies, and parts consumed	28.4	47.6
Contract services and other costs	21.5	15.3
Value of shipments or receipts (million dollars):		
Total billings	98.6	218.6
Total revenue	168.7	208.0
Value added by manufacture (million dollars):		
Total revenue less cost of materials	140.2	160.5
Revenue less cost of materials, contract services, other costs	118.8	145.2

Source: U.S. Bureau of the Census, 1982 Census of Manufactures, Manufacturing Activity in Government Establishments, MC82-S-2 (August 1983), tables 2 and 3.

Table 615.-- TOTAL EMPLOYMENT, VALUE ADDED, VALUE OF SHIPMENTS, AND GOVERNMENT SHIPMENTS BY PRIVATE MANUFACTURING FIRMS IN SELECTED INDUSTRIES, FOR THE STATE AND OAHU: 1983

[Employment figures in thousands; value figures in millions of dollars]

Subject		State total	Oahu
Number of employees		1.7	1.7
Value added by manufacture		286.1	284.9
Total value of shipments		1,632.9	1,632.9
Government shipments:	Employees	(D)	0.5
	Value of shipments	(D)	231.7
Prime contracts:	Employees	(D)	0.4
	Value of shipments	(D)	229.2
To Dept. of Defense:	Employees	(D)	0.4
	Value of shipments	(D)	228.8

D Withheld to avoid disclosing operations of individual companies.

Source: U.S. Bureau of the Census, Shipments to Federal Government Agencies, 1983, MA-175 (83)-1 (March 1985), pp. 18-19 and 24-25.

Table 616.-- INDUSTRIAL PARKS AND AREAS, BY ISLANDS: 1985

Island	Developed		Proposed	
	Number	Acres	Number	Acres
State total	33	3,066	12	1,873
Hawaii	6	618	2	1,035
Maui	4	195	2	330
Oahu	21	2,207	7	492
Kauai	2	46	1	16
Other islands	-	-	-	-

Source: Hawaii State Department of Planning and Economic Development, Industrial Parks and Areas in Hawaii 1985 (1985).

Table 617.-- GENERAL EXCISE TAX BASE FOR SUGAR PROCESSING, PINEAPPLE CANNING, AND MANUFACTURING: 1974 TO 1984

[In thousands of dollars. Data are on a cash basis accounting and may be distorted by cutoffs, out-of-period adjustments (assessments and error corrections), taxpayer reporting in wrong categories, and computer problems]

Year reported 1/	Total	Sugar processing	Pineapple canning	Manufacturing 2/
1974	934,613	454,660	103,686	376,268
1975	1,166,923	605,521	131,655	429,748
1976	783,751	275,078	95,488	413,186
1977 3/ ...	862,412	284,000	111,942	466,470
1978 3/ ...	917,163	291,000	131,665	494,498
1979	1,035,159	305,738	164,200	565,221
1980	1,349,149	527,379	195,766	626,004
1981	1,218,516	415,442	172,342	630,732
1982	1,033,845	317,880	185,367	530,598
1983	1,130,369	435,579	182,967	511,823
1984	1,132,078	414,211	198,266	519,601

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January and hence these annual totals generally refer to an "income year" ended November 30.

2/ Excludes sugar processing, pineapple canning, and petroleum refining.

3/ Partly estimated.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 618.-- PINEAPPLE COMPANIES AND CANNERIES AND SUGAR COMPANIES AND MILLS: 1940 TO 1984

Year	Pineapple (end of canning season)		Sugar (December 31)	
	Companies	Canneries	Companies 1/	Mills
1940	8	8	38	34
1945	7	7	36	32
1950	9	8	28	26
1955	10	8	28	26
1960	8	9	27	27
1965	6	6	25	27
1970	4	4	23	26
1975	3	3	16	17
1980	3	3	15	14
1983	2	2	15	13
1984	2	2	14	12
ISLANDS: 1984				
Hawaii	-	-	4	4
Maui	1	1	3	2
Oahu	1	1	2	2
Kauai	-	-	5	4

1/ Excludes cooperatives.

Source: Pineapple Growers Association of Hawaii, records; Hawaiian Sugar Planters' Association, records.

Table 619.-- EMPLOYMENT ON PINEAPPLE AND SUGAR PLANTATIONS: ANNUAL AVERAGES, 1983 AND 1984

Year	Pineapple			Sugar		
	Total	Field	Cannery	Total	Field	Mill
1983	4,850	2,300	2,550	8,250	4,500	3,750
1984	4,250	2,100	2,150	8,000	4,300	3,700

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book, as revised.

Table 620.-- HAWAIIAN PINEAPPLE PRODUCTION: 1977-1978 TO 1981

[In thousands. Pack year ended May 31 through 1978-1979 and calendar years 1979, 1980, and 1981. Hawaiian pack only; excludes overseas production by Hawaiian companies. Compilation of these statistics was suspended after 1981]

Year	Canned fruit		Canned juice		Frozen concentrate	
	Actual cases	Standard cases 1/	Actual cases	Standard cases 2/	Equivalent 6/10 cases	Standard cases 2/
1977-1978 ..	12,482	8,490	8,403	5,750	294	270
1978-1979 ..	11,142	7,620	7,386	5,760	290	265
1979	10,930	7,470	7,699	6,010	308	280
1980	9,918	6,940	8,114	6,410	237	215
1981	9,759	6,830	7,997	6,320	219	200

1/ 24 No. 2 1/2 can, 45-lb. cases.
2/ 24 No. 2 1/2 can, 42 1/2-lb. cases.
Source: The Pineapple Growers Association of Hawaii, records; Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 621.-- SUGAR AND MOLASSES PRODUCTION: 1969 TO 1984

Year	Cane land (acres)		Cane used for sugar (short tons)	Sugar produced (short tons)		Molasses produced (short tons)
	Total area	Harvested area		96° raw value	Equivalent refined	
1969 ...	242,216	113,232	10,839,272	1,182,414	1,105,060	340,330
1970 ...	238,997	113,816	10,457,377	1,162,071	1,086,000	322,480
1971 ...	232,278	115,810	10,685,019	1,229,976	1,149,510	330,227
1972 ...	229,611	108,456	9,929,068	1,118,883	1,045,708	307,543
1973 ...	226,580	108,189	9,645,452	1,128,529	1,054,723	301,500
1974 ...	224,227	95,826	9,082,684	1,040,742	972,677	293,380
1975 ...	221,426	105,125	9,485,299	1,107,199	1,034,788	301,335
1976 ...	221,551	99,926	9,172,649	1,050,457	981,757	275,352
1977 ...	220,729	96,770	8,994,388	1,033,739	966,132	284,349
1978 ...	220,697	99,355	9,263,190	1,028,933	961,641	310,238
1979 ...	218,773	100,610	9,632,135	1,059,737	990,430	325,843
1980 ...	217,718	97,358	9,214,136	1,023,232	956,313	315,088
1981 ...	216,099	97,573	8,831,477	1,047,541	979,032	311,719
1982 ...	204,749	89,261	8,807,998	982,913	918,630	287,190
1983 ...	194,258	92,808	8,926,358	1,044,204	975,913	303,254
1984 ...	188,396	89,541	8,453,721	1,061,814	992,371	314,202

Source: Hawaiian Sugar Planters' Association, HSPA Sugar Manual 1984, pp. 4-5, and records.

Table 622.-- AVERAGE RAW SUGAR PRICE AND SUGAR INDUSTRY EMPLOYMENT AND EARNINGS: 1969 TO 1984

Year	Average raw sugar price 1/ (cents per lb.)	Hourly-rated employees		Industry-wide strikes (weeks)	Average daily earnings 2/ (dollars)	
		Average number 3/	Total man-days		Wages	Employee benefits
1969 ...	7.75	9,213	2,066,244	5	23.26	9.76
1970 ...	8.08	8,908	2,139,183	-	24.24	10.00
1971 ...	8.52	8,610	2,077,011	-	26.08	10.27
1972 ...	9.10	8,127	1,934,563	-	29.09	11.23
1973 ...	10.30	7,900	1,897,369	-	30.86	12.48
1974 ...	29.43	7,700	1,744,346	6	34.41	15.81
1975 ...	22.49	7,800	1,937,973	-	37.34	15.66
1976 ...	13.31	7,500	1,854,272	-	43.12	17.28
1977 ...	11.11	7,200	1,660,298	3	43.92	19.97
1978 ...	13.74	7,200	1,771,530	-	47.06	21.28
1979 ...	15.20	7,065	1,762,838	-	50.49	22.21
1980 ...	30.18	7,076	1,793,237	-	56.72	24.68
1981 ...	19.74	7,282	1,806,020	-	61.51	27.71
1982 ...	19.94	6,816	1,519,732	-	65.11	30.83
1983 ...	22.04	6,543	1,565,928	-	66.80	32.00
1984 ...	21.74	6,319	1,461,127	-	68.88	34.71

1/ Average New York raw sugar price computed over all the days of the year (Hawaiian basis). The New York spot price was suspended from November 2, 1977 to August 20, 1979; figures for that period are based on Clearing Association settlement prices.

2/ For non-supervisory employees.

3/ Adults only.

Source: Hawaiian Sugar Planters' Association, HSPA Sugar Manual (annual), as revised and updated.

Table 623.-- VALUE OF SALES AND GOVERNMENT PAYMENTS FOR PINEAPPLE AND SUGAR PRODUCTION: 1974 TO 1984

[In millions of dollars. Calendar year data unless otherwise specified]

Year	Pineapple		Sugar		
	Canned fruit and juices 1/	Fresh market sales 2/	Value of production		Government sugar support payments
			Raw sugar 96°	Commercial molasses	
1974 ..	118.2	8.85	659.2	17.4	8.6
1975 ..	126.6	10.08	354.6	11.5	-
1976 ..	130.0	14.49	245.5	11.5	-
1977 ..	140.0	21.58	219.1	7.7	48.7
1978 ..	133.4	29.45	269.5	15.7	8.1
1979 ..	176.3	30.08	322.2	23.5	-
1980 ..	192.2	34.34	566.4	27.7	-
1981 ..	172.0	45.59	314.2	13.7	-
1982 ..	156.1	49.92	343.9	7.6	-
1983 ..	171.6	47.40	396.5	13.7	-
1984 ..	202.0	47.60	382.9	10.1	-

1/ Value of canned fruit and juices and by products shipped out-of-State and sold within State. Prior to 1979, data are for pack years beginning June 1.

2/ Value FAS shipping point for outshipments, delivered wholesalers local sales.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual) and records.

Section 23

DOMESTIC TRADE AND SERVICES

This section presents statistics relating to retail and wholesale trade; hotels; and selected personal, business, automotive, repair, and amusement services. Related data are included in Sections 7, 12 and 15.

These activities have undergone rapid growth in recent decades, in part because of higher price levels. Retail sales increased from $751 million in 1963 to $1.9 billion in 1972 and $5.2 billion in 1982. Wholesale sales rose from $1.6 billion in 1972 to $4.1 billion in 1982. Hotels, amusements, and other services reported receipts exceeding $2.6 billion in 1982, compared with $665 million in 1972. General excise and use tax base data for more recent years indicate continued increases; between 1982 and 1984, the retailing tax base rose 18 percent, the wholesaling base by 25 percent, and the base for services by 24 percent. Major retail concentrations include Waikiki, Ala Moana Center, Pearlridge Center, and downtown Honolulu. In addition to civilian retail outlets, there are many commissaries, exchanges, clubs, gasoline stations and food services maintained by the armed forces; these facilities had sales of $470 million in 1984.

Growth has been especially rapid for hotels and related facilities. The number of units in the State rose from 6,800 in 1959 to 33,000 in 1971 and 66,000 in 1985. There were 481 hotels, motels and apartment-hotels in Hawaii on the latter date, including 309 on the Neighbor Islands. One-third of all transient units were in condominium structures. Occupancy rates averaged 82.6 percent in Waikiki and 69.1 percent on the Neighbor Islands during 1984. The average daily room rate was $59 in 1984. The hotel payroll in 1984 totaled $369 million, compared with $219 million five years earlier.

Seventy-six feature motion pictures and television specials and series were filmed in Hawaii in 1984, accounting for local expenditures of $38 million.

The major source of these data are the United State Censuses of Retail Trade, Wholesale Trade, and Service Industries, most recently conducted for 1982. Statistics on the retailing, wholesaling, and services tax bases are available from the Hawaii State Department of Taxation. Data on hotel room counts, occupancy and other characteristics are published by the Hawaii Visitors Bureau and the firm of Pannell Kerr Forster. The Film Industry Branch of the Department of Planning and Economic Development compiles data on motion picture and television production. A summary of figures on trade and services in earlier years appears in Historical Statistics of Hawaii, Section 20. The Statistical Abstract of the United States: 1985, Section 30, presents similar data for other states and the nation as a whole.

Table 624.-- RETAIL TRADE, WHOLESALE TRADE, AND SELECTED SERVICES: 1958 TO 1982

Year	Retail trade		Wholesale trade		Selected services	
	Establishments	Sales ($1,000)	Establishments	Sales ($1,000)	Establishments	Receipts ($1,000)
1958 (1963 def.)	4,760	516,177	793	618,155	3,070	101,142
1963	4,578	751,411	974	735,205	3,431	163,094
1967	5,212	1,083,458	1,030	1,013,813	4,057	310,290
1972 (1967 def.)	6,416	1,881,516	1,311	1,511,398	5,570	583,289
1972 (1972 def.)	6,392	1,864,985	1,336	1,538,429	6,348	683,201
1972 (1977 def.)	5,880	1,859,929	1,337	1,561,654	6,348	664,857
1977 (1977 def.)	7,388	3,294,118	1,569	2,571,489	8,023	1,276,163
1977 (1982 def.)	7,477	3,296,714	1,569	2,571,489	(1/)	(1/)
1982	8,917	5,193,406	1,737	4,084,369	(1/)	(1/)

1/ Comparable data not available. Service establishments with payroll and subject to Federal income tax numbered 6,124 in 1982, with receipts of $2,659,651,000.

Source: Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1977), pp. 513, 524, and 526. U.S. Bureau of the Census 1977 Census of Retail Trade, RC77-A-12, table 2; 1977 Census of Wholesale Trade, WC77-A-12 (Revised), table 2; 1977 Census of Service Industries, SC77-A-12, table 2; 1982 Census of Retail Trade, RC82-A-12, table 2; 1982 Census of Wholesale Trade, WC82-A-12, table 2; 1982 Census of Service Industries, SC82-A-12, table 1a.

Table 625.-- GENERAL EXCISE TAX BASE FOR TRADE AND SERVICE ACTIVITIES: 1974 TO 1984

[In thousands of dollars. Data are on a cash basis accounting and may be distorted by cutoffs, out-of-period adjustments (assessments and error corrections), taxpayer reporting in wrong categories, and computer problems]

Year reported 1/	Retailing	Services 2/	Theater, amusement, broadcasting, etc.	Wholesaling
1974	2,959,201	783,771	66,557	1,374,819
1975	3,382,804	919,912	74,561	1,527,057
1976	3,724,487	978,091	82,134	1,721,874
1977 3/ ...	4,222,169	1,095,066	92,827	1,989,981
1978 3/ ...	4,774,076	1,222,996	104,085	2,158,707
1979	5,519,889	1,412,195	109,143	2,800,951
1980	6,109,628	1,743,003	121,562	2,986,877
1981	6,700,750	1,809,913	129,501	3,528,763
1982	6,874,963	1,905,068	130,280	3,207,768
1983	7,438,193	2,134,524	144,095	3,694,220
1984	8,111,893	2,368,415	153,723	4,025,324

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

2/ Includes both business and professional services but excludes hotels, theater, amusement, broadcasting, and intermediary services.

3/ Partly estimated.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 626.-- CHARACTERISTICS OF RETAIL ESTABLISHMENTS, FOR THE STATE, 1977 AND 1982, AND OAHU AND THE NEIGHBOR ISLANDS, 1982

Subject	1977 1/	1982		
		State total	Oahu	Neighbor islands
All establishments:				
Number	7,477	8,917	6,347	2,570
Sales ($1,000)	3,296,714	5,193,406	3,962,598	1,230,808
Unincorporated businesses (number):				
Individual proprietorships	3,120	3,656	2,591	1,065
Partnerships	516	556	392	164
Establishments with payroll:				
Number	5,273	6,139	4,318	1,821
Sales ($1,000)	3,225,311	5,101,671	3,898,767	1,202,904
Annual payroll ($1,000)	458,782	696,438	539,170	157,268
First quarter payroll ($1,000)	111,143	164,950	127,260	37,690
Paid employees for pay period including March 12 (number)	72,098	81,979	63,620	18,359

1/ The 1977 data on total establishments, total sales, sales of establishments with payroll, and annual payroll have been revised for comparability with the 1982 data; the 1977 data on unincorporated businesses, number of establishments with payroll, first quarter payroll, and paid employees are unrevised. Unrevised figures for those data subsequently revised are as follows: total establishments, 7,388; total sales, $3,294,118,000; sales of establishments with payroll, $3,222,715,000; annual payroll, $460,322,000.

Source: U.S. Bureau of the Census, 1977 Census of Retail Trade, Hawaii, RC77-A-12 (June 1979), table 1; 1982 Census of Retail Trade, Hawaii, RC82-A-12 (September 1984), tables 1, 2, 4, and 5.

Table 627.-- RETAIL TRADE FOR COUNTIES AND FOR PLACES WITH 2,500 INHABITANTS OR MORE: 1982

Geographic area	All establishments		Establishments with payroll	
	Number	Sales ($1,000)	Number	Sales ($1,000)
State total	8,917	5,193,406	6,139	5,101,671
Hawaii County	1,039	492,154	738	481,664
Hilo	445	285,856	345	283,381
Kailua	216	103,003	162	100,759
Balance of county	378	103,295	231	97,524
Honolulu County	6,347	3,962,598	4,318	3,898,767
Ahuimanu	16	(D)	6	(D)
Aiea	274	254,358	189	252,013
Ewa	6	(D)	4	(D)
Ewa Beach	45	10,100	17	9,604
Hauula	13	5,304	6	5,269
Heeia	10	341	-	-
Hickam Housing	-	-	-	-
Honolulu	4,595	2,859,473	3,280	2,813,522
Iroquois Point	-	-	-	-
Kahaluu	5	(D)	1	(D)
Kailua	244	152,715	154	150,387
Kaneohe	220	182,230	138	180,237
Laie	13	1,738	2	(D)
Maile	7	2,783	6	(D)
Makaha	10	3,702	4	3,633
Makakilo City	15	2,599	5	2,424
Maunawili	19	1,643	4	1,569
Mililani Town	59	23,226	20	22,233
Mokapu	1	(D)	1	(D)
Nanakuli	16	10,567	11	10,469
Pearl City	186	122,823	90	120,958
Schofield Barracks ...	3	1,430	3	1,430
Wahiawa	140	55,200	89	54,208
Waialua	14	4,717	8	(D)
Waianae	56	41,490	38	41,148
Waimanalo	33	14,349	23	14,062
Waimanalo Beach	1	(D)	-	-
Waipahu	196	133,233	123	130,512
Waipio Acres	4	331	2	(D)
Balance of county	146	57,318	94	55,667

Continued on next page.

Table 627.-- RETAIL TRADE FOR COUNTIES AND FOR PLACES WITH 2,500 INHABITANTS OR MORE: 1982 -- Con.

Geographic area	All establishments		Establishments with payroll	
	Number	Sales ($1,000)	Number	Sales ($1,000)
Kauai County	539	219,418	365	211,628
Hanamaulu	6	1,011	4	(D)
Kalaheo	14	2,724	5	2,334
Kapaa	150	47,147	102	45,487
Kekaha	10	2,146	4	1,998
Lihue	168	100,040	131	97,769
Balance of county	191	66,350	119	(D)
Maui County	992	519,236	718	509,612
Island of Lanai	11	3,728	9	(D)
Island of Molokai	45	14,147	30	13,852
Kahului	183	161,665	138	159,831
Kihei	85	42,021	56	41,442
Lahaina	309	138,309	251	135,396
Makawao	22	4,840	5	4,213
Pukalani	24	8,715	16	(D)
Wailuku	147	61,074	96	60,051
Balance of county	166	84,737	117	82,869

(D) Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, 1982 Census of Retail Trade, Hawaii, RC82-A-12 (September 1984), table 8.

Table 628.-- RETAIL TRADE, BY KIND OF BUSINESS: 1982 AND 1977

[Limited to establishments with payroll]

SIC code	Kind of business	Number of establishments, 1982	Sales 1982 ($1,000)	Sales 1977 ($1,000)	Sales Percent change
	Retail trade	6,139	5,101,671	3,225,311	58.2
52	Building materials, hardware, garden supply	126	149,622	75,697	97.7
53	General merchandise	153	657,247	581,366	13.1
54	Food stores	797	1,081,175	651,163	66.0
55 ex. 554	Automotive dealers	227	540,566	458,497	17.9
554	Gasoline service stations ..	366	400,141	173,075	131.2
56	Apparel and accessory stores	793	379,746	208,514	82.1
57	Furniture, home furnishings, and equipment stores	335	160,828	98,135	63.9
58	Eating and drinking places .	1,741	872,558	478,966	82.2
591	Drug and proprietary stores	121	337,590	178,392	89.2
59 ex. 591	Miscellaneous retail stores	1,480	522,198	321,506	62.4

Source: U.S. Bureau of the Census, 1982 Census of Retail Trade, Hawaii, RC82-A-12 (September 1984), tables 1 and 2.

Table 629.-- MERCHANDISE LINE SALES OF RETAIL ESTABLISHMENTS WITH PAYROLL: 1982

Merchandise line	Number of establishments	Sales of specified merchandise line ($1,000)
Total retail trade 1/	6,139	5,101,671
Groceries and other foods	1,127	908,817
Meals and snacks	1,852	762,547
Alcoholic drinks	892	139,845
Packaged alcoholic beverages	616	150,107
Cigars, cigarettes, and tobacco	717	63,754
Drugs, health aids, and beauty aids	674	265,268
Men's and boys' clothing exc. footwear	816	186,809
Women's and girls' wear exc. footwear	977	358,826
Footwear exc. infants and toddlers	494	67,200
Sewing, knitting, and needlework goods	178	25,803
Curtains, draperies and dry goods	223	33,762
Major household appliances	173	47,975
Small electric appliances	202	31,128
TV's and video recorders and tapes	156	23,670
Audio equip. and musical instrument and supplies	270	47,674
Furniture and sleep equipment	185	73,472
Floor coverings	122	15,436
Kitchenware and home furnishings	430	54,895
Jewelry	860	165,600
Optical goods	103	10,010
Sporting goods	313	56,792
Hardware tools and plumbing and electrical supplies	253	56,361
Lawn and garden equip., and supplies	311	51,630
Lumber and building materials	152	100,242
Cars, trucks, powered vehicles	97	391,570
Automotive fuels	425	365,151
Automotive lubricants	428	10,627
Auto tires, batteries, and accessories	518	121,699
All other merchandise	1,220	354,915
Unclassified merchandise	634	30,577
Nonmerchandise receipts	923	127,232
Miscellaneous merchandise	(X)	2,277

X Not applicable.

1/ Because some establishments carry more than one merchandise line, the number of establishments for each line will not add to the indicated totals.

Source: U.S. Bureau of the Census, 1982 Census of Retail Trade: Merchandise Line Sales, Hawaii (unpublished tabulations filed in the Hawaii Department of Planning and Economic Development Library).

Table 630.-- EATING PLACES AND DRINKING PLACES: 1982

[Data limited to establishments with payroll]

Subject	Restaurants and lunchrooms	Cafeterias	Refreshment places	Drinking places
All establishments:				
Number of establishments	773	26	545	300
Seating capacity	81,891	2,037	22,228	(NT)
Sales ($1,000)	466,188	9,588	262,001	63,043
With waiter or waitress service:				
Number of establishments	773	6	96	290
Sales ($1,000)	466,188	1,061	44,004	61,136
Establishments by average cost per meal:				
Under $2.00	9	-	83	...
$2.00 to $4.99	350	23	406	...
$5.00 to $9.99	232	3	56	...
$10.00 or more	182	-	-	...
Establishments by primary type of food service:				
Table, booth, counter seat with waiter/waitress service	773	-	59	...
Order and pay at counter with inside seating	-	-	272	...
Cafeteria line with inside seating	-	26	1	...
Take out/drive through	-	-	182	...
Other	-	-	31	...
Franchise holders:				
Number of establishments	48	(NT)	120	(NT)
Sales ($1,000)	31,158	(NT)	60,831	(NT)

NT Not tabulated.

Source: U.S. Bureau of the Census, 1982 Census of Retail Trade, RC82-I-4, Miscellaneous Subjects (June 1985), tables 7, 9, 11, and 14.

Table 631.-- RESTAURANT CHARACTERISTICS: 1983

[Based on a survey of 1,768 restaurants]

Subject	Percent	Subject	Percent
Island, total	100.0	Meals served, total	100.0
Oahu	71.7	All 3 meals	36.8
Other islands	28.3	Lunch and dinner only	34.0
		Breakfast and lunch only	10.5
Locality, total	100.0	Other combinations	18.7
Business district	33.8		
Tourist area	24.9	Average check, total	100.0
Other	41.3	$3.00 or less	27.7
		$3.01 to $6.00	37.7
Type of service, total	100.0	$6.01 to $10.00	18.2
Fast food	27.3	$10.01 or more	16.4
Family	21.6	Average amount	$6.44
Other	51.1		
		Liquor served, total	100.0
Price, total	100.0	None	52.8
Inexpensive	44.2	Liquor, beer, and wine	39.3
Moderate	51.8	Other combinations	7.9
Expensive	4.0		
		Annual food/beverage sales, total	100.0
Ownership, total	100.0	Under $100,000	25.1
Independent	65.4	$100,000 to $299,999	26.3
Chain-owned	11.6	$300,000 to $999,000	29.3
Other types	23.0	$1,000,000 and over	19.3
Types of food: 1/		Percent of sales to tourists, total	100.0
American	64.4	Under 10	48.1
Japanese	25.8	10 to 49	24.5
Chinese	19.8	50 or more	27.5
Seafood	14.8		
Hawaiian	14.5	Average number of years in business	10.0
Continental	12.3		
Italian	11.1	Average number of food and beverage employees	23.9
Korean	8.5	Full-time	13.8
Filipino	7.6		
Mexican	7.1		

1/ Multiple responses.

Source: Morton Fox and Danny Breatchel, Survey of the Hawaii Restaurant Industry (University of Hawaii at Manoa, School of Travel Industry Management, 1984).

Table 632.-- LIQUOR AND TOBACCO TAX BASES: 1979 TO 1984

[Wholesale value, in thousands of dollars. Excludes sales on military bases]

Year 1/	Liquor tax base 2/			Tobacco tax base
	Total	Base for taxes paid	Base for taxes contested	
1979	111,588	88,859	22,729	31,020
1980	122,848	42,691	80,157	33,275
1981	132,513	49,182	83,332	35,151
1982	149,859	34,865	114,994	37,338
1983	145,935	14,009	131,927	49,580
1984	143,668	57,621	86,047	48,262

1/ Calendar year in which reported; data accordingly refer in general to liquor and tobacco sales for 12-month periods ended November 30.

2/ In 1979, several major distributors legally contested the State liquor tax law. Tax revenues that otherwise would have been collected under this law are being held in escrow until the courts rule on the case.

Source: Hawaii State Department of Taxation, "Liquor Tax Base, Collections and Permits; Tobacco Tax Base, Collections and Licenses" (annual release), and records.

Table 633.-- APPARENT CONSUMPTION OF ALCOHOL BEVERAGES, TOTAL AND PER CAPITA, BY TYPE OF BEVERAGE: 1977 TO 1983

Year	Total (1,000 gallons)			Per capita 1/ (gallons)		
	Distilled spirits	Wine	Beer	Distilled spirits	Wine	Beer
1977	2,095	1,901	24,490	2.1	1.9	24.7
1978	2,160	2,493	21,390	2.1	2.5	21.1
1979	2,200	2,427	25,110	2.1	2.3	24.1
1980	2,175	2,685	27,621	2.1	2.5	26.2
1981	2,165	2,628	29,633	2.0	2.5	27.8
1982	2,155	2,879	31,149	2.0	2.6	28.6
1983	2,180	2,727	33,325	2.0	2.4	29.9

1/ Based on de facto population estimates in the Hawaii State Department of Planning and Economic Development, Statistical Report 173.

Source: Distilled Spirits Council of the United States, Inc., Public Revenues from Alcohol Beverages (annual).

Table 634.-- FLOOR SPACE FOR SELECTED KINDS OF RETAIL BUSINESS: 1982

[Data limited to establishments with payroll]

Kind of business	Number of establishments	Sales ($1,000)	Under-roof floor space (1,000 sq. ft.)		Sales per square foot of selling space (dollars)	Selling space as percent of total floor space
			Total	Selling		
Department stores 1/ ...	24	444,778	2,058	1,332	334	64.7
Variety stores	38	75,993	759	554	137	73.0
Grocery stores	502	961,227	3,168	2,278	422	71.9

1/ Excluding leased departments.

Source: U.S. Bureau of the Census, 1982 Census of Retail Trade, RC82-I-4, Miscellaneous Subjects (June 1985), table 26.

Table 635.-- MAJOR RETAIL CENTERS, FOR OAHU: 1972 TO 1982

Geographic area	Number of retail establishments			Retail sales ($1,000)		
	1972	1977	1982	1972	1977	1982
Oahu total	4,235	5,262	6,347	1,489,602	2,574,973	3,962,598
Honolulu CBD: 1/						
1972 definition ..	353	415	(NA)	65,471	94,811	(NA)
1977 definition ..	(NA)	485	523	(NA)	122,873	177,254
Ala Moana Center ...	224	187	196	218,844	307,498	423,895
Waikiki 2/	597	646	1,082	169,084	307,233	600,615
Kahala Mall	60	55	54	41,625	47,407	*82,977
Pearlridge Center ..	32	102	133	18,606	118,867	*173,953

* Excludes establishments without payroll (Kahala Mall, 1; Pearlridge Center, 3).

NA Not available.

1/ The Honolulu Central Business District was redefined in 1977 to include the area bounded by Nuuanu Stream, School Street, Queen Emma Street, Beretania Street, Richards Street, Halekauwila Street, and Honolulu Harbor. Before 1977, the CBD as defined excluded that part between Beretania Street and School Street. For comparable statistics back to 1948, see DPED Statistical Memorandum 80-7 (July 31, 1980).

2/ Waikiki is defined as the area bounded by the Ala Wai Canal, Kapahulu Avenue, and the Pacific Ocean.

Source: Hawaii State Department of Planning and Economic Development, Retail Trade in Downtown Honolulu, 1948-1977 (Statistical Memorandum 80-7, July 31, 1980). U.S. Bureau of the Census, 1972 Census of Retail Trade, Major Retail Centers, Hawaii, RC72-C-12 (November 1974), table 1; 1977 Census of Retail Trade, Major Retail Centers, Hawaii, RC77-C-12 (February 1980), table 1; 1982 Census of Retail Trade, Major Retail Centers, Hawaii, RC82-C-12 (October 1984), table 1.

Table 636.-- PERCENT OF OAHU RETAIL SALES IN MAJOR RETAIL CENTERS: 1948 TO 1982

Year	Honolulu CBD 1/		Ala Moana Center	Waikiki	Kahala Mall	Pearlridge Center
	1972 defin.	1977 defin.				
1948	24.4	27.5	...	5.4	...	...
1954	19.7	(NA)	...	(NA)	(NA)	...
1958	15.4	(NA)	...	7.7	1.0	...
1963	9.1	9.5	10.8	7.6	(NA)	...
1967	6.1	(NA)	13.6	9.3	1.8	...
1972	4.4	(NA)	14.7	11.4	2.8	1.2
1977	3.7	4.8	11.9	11.9	1.8	4.6
1982	(NA)	4.5	10.7	15.2	*2.1	*4.5

*Based on data limited to establishments with payroll.

NA Not available.

1/ See preceding table, footnote 1.

Source: Hawaii State Department of Planning and Economic Development, Major Retail Centers on Oahu, 1972-1982 (Statistical Memorandum 84-4, November 14, 1984), table 2.

Table 637.-- SHOPPING CENTERS: 1977 TO 1981

Year (Dec. 31)	Number of stores			Gross leasable area (1,000 square feet)		
	State total	Oahu	Other islands	State total	Oahu	Other islands
1977	2,374	1,719	655	9,142	7,422	1,720
1978	2,635	1,729	906	9,602	7,492	2,110
1979	2,734	1,818	916	10,002	7,806	2,196
1980	2,755	1,839	916	10,149	7,953	2,196
1981	(NA)	(NA)	(NA)	10,895	(NA)	(NA)

NA Not available.

Source: Bank of Hawaii, Hawaii 81 (August 1981), p. 30; Hawaii 1985 (1985), p. 30; and records.

Table 638.-- COMMISSARY, EXCHANGE, AND CLUB SALES AND HOTEL RECEIPTS OF THE ARMED FORCES: 1976 TO 1984

[In thousands of dollars. Data for food service facilities, incomplete before 1977, and miscellaneous facilities, incomplete before 1982, are excluded from this table but are included in the following table]

Year	Commissary, exchange, and club sales 1/				Hotel receipts 2/
	Total	Commissaries	Exchanges	Clubs	
1976	217,609	67,183	129,341	21,085	6,365
1977	223,775	66,550	133,878	23,347	7,356
1978	249,457	77,034	149,493	22,930	8,151
1979	258,307	83,595	150,159	24,554	8,922
1980	284,168	98,237	166,564	19,367	10,114
1981	317,530	107,236	191,181	19,112	11,767
1982	353,871	115,314	217,647	20,910	13,796
1983	368,811	127,229	217,171	24,411	14,288
1984	407,030	129,796	253,245	23,989	14,341

1/ Calendar year statistics.

2/ Room, food, and beverage receipts of Hale Koa Hotel, for years ended September 30. Hale Koa opened in October 1975.

Source: Hawaii State Department of Planning and Economic Development, Retail Sales and Hotel Receipts of the Armed Forces, 1984 (Statistical Report 176, July 10, 1985).

Table 639.-- SALES OF RETAIL FACILITIES OPERATED BY THE ARMED FORCES, BY TYPE OF FACILITY: 1983 AND 1984

[Thousands of dollars. Data exclude Hale Koa Hotel]

Type of facility	1983 1/	1984
Total	430,354	470,136
Commissaries	127,229	129,796
Exchanges	217,171	253,245
Clubs	24,411	23,989
Food services	17,406	16,878
Package stores	16,604	18,662
Gas stations	19,586	20,256
Vending outlets	7,948	7,309

1/ Revised from Data Book 1984, table 680.

Source: Hawaii State Department of Planning and Economic Development, Retail Sales and Hotel Receipts of the Armed Forces, 1984 (Statistical Report 176, July 10, 1985).

Table 640.-- RETAIL SALES AT CIVILIAN AND MILITARY ESTABLISHMENTS: 1983 AND 1984

Year	Sales ($1,000,000)			Percent distribution		
	Total	Civilian	Military	Total	Civilian	Military
1983	7,868.6	7,438.2	430.4	100.0	94.5	5.5
1984	8,582.0	8,111.9	470.1	100.0	94.5	5.5

Source: Tables 625 and 639.

Table 641.-- CHARACTERISTICS OF WHOLESALE ESTABLISHMENTS, FOR THE STATE, 1977 AND 1982, AND OAHU AND THE NEIGHBOR ISLANDS, 1982

Subject	1977	1982 State total	1982 Oahu	1982 Neighbor Islands
Number of establishments	1,569	1,737	1,417	320
Sales ($1,000)	2,571,489	4,084,369	3,392,728	691,641
Annual payroll ($1,000)	177,556	287,626	250,836	36,790
First quarter payroll ($1,000)	43,517	69,858	(NA)	(NA)
Paid employees for pay period including March 12 (number)	14,695	17,210	14,750	2,460
Operating expenses ($1,000)	375,803	620,882	(NA)	(NA)
Inventories ($1,000):				
Beginning of year	(NA)	457,525	(NA)	(NA)
End of year	248,195	440,723	(NA)	(NA)

NA Not available.

Source: U.S. Bureau of the Census, 1977 Census of Wholesale Trade, Hawaii, WC77-A-12 (Revised) (March 1980), table 1; 1982 Census of Wholesale Trade, Hawaii, WC82-A-12 (September 1984), tables 1, 2, 4, and 5.

Table 642.-- WHOLESALE ESTABLISHMENTS, EMPLOYMENT, AND PAYROLL: 1982 AND 1983

Major industry group	Number of establishments 1982	Number of establishments 1983	Employees, week including Mar. 12 1982	Employees, week including Mar. 12 1983	Annual payroll ($1,000,000) 1982	Annual payroll ($1,000,000) 1983
All wholesale trade	1,684	1,834	17,695	17,666	299.1	316.8
Durable goods	858	947	8,620	8,728	156.6	167.5
Nondurable goods	799	859	8,582	5,528	130.8	137.6
Administrative and auxiliary	27	28	493	410	11.7	11.8

Source: U.S. Bureau of the Census, County Business Patterns 1983, Hawaii, CBP-83-13 (August 1985), p. 1.

Table 643.-- WHOLESALE TRADE, FOR COUNTIES AND SPECIFIED PLACES: 1982

Geographic area	All wholesalers		Merchant wholesalers	
	Number of establishments	Sales ($1,000)	Number of establishments	Sales ($1,000)
State total	1,737	4,084,369	1,434	2,496,494
Hawaii County	159	285,513	133	152,353
Hilo	107	242,071	90	(D)
Kailua	16	11,835	15	(D)
Honolulu County	1,417	3,392,728	1,169	2,140,295
Aiea	26	64,848	21	58,510
Ewa Beach	12	42,470	10	(D)
Honolulu	1,221	2,950,750	1,016	1,872,910
Kailua	30	25,978	16	5,776
Kaneohe	13	7,460	11	(D)
Pearl City	28	73,908	22	37,300
Waipahu	31	103,617	27	72,012
Kauai County	51	81,030	40	52,557
Lihue	33	55,556	25	40,755
Maui County	110	325,098	92	151,289
Island of Lanai	1	(D)	-	-
Island of Molokai ...	3	(D)	1	(D)
Kahului	54	189,855	43	(D)
Wailuku	35	41,769	32	(D)

(D) Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, 1982 Census of Wholesale Trade, Hawaii, WC82-A-12 (September 1984), table 8.

Table 644.-- WHOLESALE TRADE, BY TYPE OF OPERATION AND KIND OF BUSINESS: 1982

Type of operation and kind of business	Number of establishments	Sales ($1,000)
Wholesale trade	1,737	4,084,369
Type of operation:		
Merchant wholesalers	1,434	2,496,494
Manufacturers' sales branches and offices	160	1,269,797
Agents, brokers, and commission merchants	143	318,078
Kind of business:		
Motor vehicles and automotive parts and supplies	103	293,883
Furniture and home furnishings	59	68,643
Lumber and other construction materials	91	126,739
Sporting, recreational, photo, and hobby goods, toys and supplies	53	83,413
Metals and minerals, except petroleum	12	25,358
Electrical goods	107	244,951
Hardware, and plumbing and heating equipment and supplies	83	98,641
Machinery, equipment, and supplies	268	418,117
Miscellaneous durable goods	123	83,484
Paper and paper products	66	104,774
Drugs, drug proprietaries, and druggists' sundries	42	122,196
Apparel, piece goods, and notions	70	71,081
Groceries and related products	339	1,187,153
Farm-product raw materials	4	4,182
Chemicals and allied products	33	68,316
Petroleum and petroleum products	42	671,552
Beer, wines, and distilled alcoholic beverages	37	175,607
Miscellaneous nondurable goods	205	236,279

Source: U.S. Bureau of the Census, 1982 Census of Wholesale Trade, Hawaii, WC82-A-12 (September 1984), table 2.

Table 645.-- CHARACTERISTICS OF SERVICE ESTABLISHMENTS WITH PAYROLL AND SUBJECT TO FEDERAL INCOME TAX, FOR THE STATE, 1977 AND 1982, AND OAHU AND THE NEIGHBOR ISLANDS, 1982

Subject	1977	1982		
		State total	Oahu	Neighbor islands
Number of establishments	(NA)	6,124	4,864	1,260
Excluding health services 1/ ...	(NA)	4,470	3,535	935
Receipts ($1,000)	(NA)	2,659,651	1,974,216	685,435
Excluding health services 1/ ...	1,269,740	2,239,440	1,642,415	597,025
Annual payroll ($1,000)	(NA)	904,328	688,918	215,410
Excluding health services 1/ ...	409,725	729,107	550,547	178,560
First quarter payroll ($1,000) ...	(NA)	221,453	169,166	52,287
Paid employees for pay period including March 12 (number)	(NA)	71,051	52,849	18,202

NA Not available.

1/ Other than hospitals.

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Hawaii, SC82-A-12 (September 1984), tables 1a, 2a, 4a, and 5a.

Table 646.-- SERVICE ESTABLISHMENTS, EMPLOYMENT, AND PAYROLL, FOR SELECTED INDUSTRY GROUPS: 1982 AND 1983

Major industry group	Number of establishments		Employees, week including March 12		Annual payroll (1,000,000)	
	1982	1983	1982	1983	1982	1983
All services ...	7,091	7,893	102,844	102,070	1,301	1,398
Hotels	224	239	25,475	24,258	282	288
Business services ...	939	1,119	14,164	13,803	152	158
Health services	1,677	1,811	20,227	20,744	362	399

Source: U.S. Bureau of the Census, County Business Patterns 1983, Hawaii, CBP-83-13 (August 1985), pp. 1-2.

Table 647.-- SERVICE ESTABLISHMENTS WITH PAYROLL AND SUBJECT TO FEDERAL INCOME TAX, FOR COUNTIES AND SELECTED URBAN PLACES: 1982

Geographic area	Number of establishments		Receipts ($1,000)	
	All services	Hotels 1/	All services	Hotels 1/
State total	6,124	209	2,659,651	973,328
Hawaii County	551	31	258,568	142,430
Hilo	328	11	84,145	11,746
Kailua	91	11	53,919	38,275
Honolulu County	4,864	118	1,974,216	575,692
Aiea	134	2	28,124	(D)
Ewa Beach	12	-	1,796	-
Honolulu	3,958	109	1,762,672	543,972
Kailua	200	1	31,712	(D)
Kaneohe	122	-	22,444	-
Makakilo City	20	-	2,374	-
Mililani Town	16	-	3,504	-
Pearl City	103	-	20,529	-
Wahiawa	85	-	13,646	-
Waianae	24	2	10,889	(D)
Waipahu	76	-	15,329	-
Kauai County	211	22	88,590	43,623
Kapaa	34	5	13,104	8,793
Lihue	103	5	47,610	(D)
Maui County	498	38	338,277	211,583
Island of Lanai ...	5	1	677	(D)
Island of Molokai .	14	2	3,134	(D)
Kahului	145	2	59,277	(D)
Kihei	25	3	7,434	(D)
Lahaina	68	15	98,651	83,472
Wailuku	174	1	40,639	(D)

D Withheld to avoid disclosing data for individual companies.

1/ Including motels and other lodging places (SIC 70), but excluding condominium apartments in transient use.

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Hawaii, SC82-A-12 (September 1984), table 8.

Table 648.-- SERVICE ESTABLISHMENTS WITH PAYROLL AND SUBJECT TO FEDERAL INCOME TAX, BY KIND OF BUSINESS OR OPERATION: 1982 AND 1977

SIC code	Kind of business or operation	Number of establishments, 1982	Receipts 1982 ($1,000)	Receipts 1977 ($1,000)	Receipts Percent change
	Total	6,124	2,659,651	(D)	(D)
70	Hotels, motels, other lodging	209	973,328	548,706	77.4
72	Personal services	663	100,785	70,708	42.5
73	Business services	1,024	313,686	154,427	103.1
75	Automotive repair, services, and garages .	567	249,342	157,015	58.8
76	Miscellaneous repair services	241	47,779	32,369	47.6
78, 79	Amusement and recreation services, incl. motion pictures	312	128,452	79,777	61.0
80, ex. 806	Health services, except hospitals	1,654	420,211	(D)	(D)
81	Legal services	636	173,129	65,120	165.9
823, 4, 9	Selected educational services	58	8,032	6,333	26.8
891	Engineering, architectural, surveying serv.	336	158,104	107,129	47.6
893	Accounting, auditing, bookkeeping services ..	308	75,046	43,444	72.7
83, 892, 9	Social and other services	116	11,757	4,712	149.5

D Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Hawaii, SC82-A-12 (September 1984), tables 1a and 2a.

Table 649.-- HOTELS, MOTELS, AND TOURIST COURTS: 1939 TO 1982

[Excludes condominium units in transient use, sporting and recreational camps, rooming and boarding houses, and membership lodging]

Year	Number of establishments			Receipts ($1,000)		
	Total	Hotels	Other facil. 1/	Total	Hotels	Other facil. 1/
All establishments:						
1939	(NA)	116	(NA)	(NA)	3,565	(NA)
1948	154	152	2	(D)	9,426	(D)
1954	92	88	4	15,621	(D)	(D)
1958	134	126	8	(D)	27,543	(D)
1963	170	161	9	48,650	48,337	313
1967	207	189	18	113,145	110,705	2,440
1972	220	187	33	241,606	230,972	10,634
1977	236	191	45	548,763	542,135	6,628
1982	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Establishments with payroll						
1939	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1948	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1954	72	68	4	15,513	(D)	(D)
1958	116	108	8	(D)	27,449	(D)
1963	148	139	9	48,540	48,227	313
1967	164	152	12	(D)	110,279	(D)
1972	190	168	22	(D)	230,620	(D)
1977	198	167	31	(D)	541,782	(D)
1982	204	178	26	973,127	964,192	8,935

D Withheld to avoid disclosing data for individual companies.
NA Not available.
1/ Includes tourist courts beginning in 1948, motels beginning in 1954, and motor hotels beginning in 1963.

Source: U.S. Bureau of the Census, Census of Service Industries (title varies), 1939-1982.

Table 650.-- HOTELS, MOTELS, AND OTHER LODGING PLACES: 1982

[Includes only establishments with payroll]

Subject	Number of establishments	Receipts ($1,000)	Annual payroll ($1,000)	Paid employees, pay period including March 12
SUBJECT TO FEDERAL INCOME TAX				
Hotels, motels, other lodging .	209	973,328	287,299	26,078
Hotels	178	964,192	284,833	25,718
25 guestrooms or more	158	962,079	284,296	25,644
Less than 25 guestrooms	20	2,113	537	74
Motels, motor hotels, tourist courts	26	8,935	2,421	352
Other lodging places 1/	5	201	45	8
EXEMPT FROM FEDERAL INCOME TAX				
Hotels, camps, membership lodging 2/	8	1,319	473	64

1/ Trailering parks and camps, 1 establishment; rooming, boarding, and membership lodging, 4.

2/ Hotels, 2 establishments; sporting and recreational camps, 3; organization hotels and lodging houses, on membership basis, 3.

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Hawaii, SC82-A-12 (September 1984), pp. 3 and 5.

Table 651.-- HOTEL UNITS AND OCCUPANCY RATES, BY GEOGRAPHIC AREAS: 1967 TO 1984

[Includes condominium units in rental pools for transient occupancy]

Year	Number of hotel units, October 1/			Percent of units occupied, annual average 2/		
	State total	Oahu	Neighbor Islands	State total 3/	Waikiki	Neighbor Islands
1967	18,235	13,004	5,231	85.5	90.0	72.8
1968	21,243	15,138	6,105	83.7	89.2	75.2
1969	25,822	18,209	7,613	77.8	81.3	69.3
1970	30,323	21,217	9,106	71.2	74.1	64.8
1971	35,349	24,612	10,737	60.4	58.9	63.5
1972	35,653	24,441	11,212	68.9	70.0	66.4
1973	37,319	24,969	12,350	77.7	81.5	70.2
1974	39,558	25,352	14,206	77.5	82.0	69.4
1975	40,691	25,699	14,992	74.1	78.3	68.3
1976	44,093	27,099	16,994	76.9	82.6	68.4
1977	46,048	28,083	17,965	77.4	81.2	71.7
1978	48,790	29,294	19,496	79.5	82.1	75.5
1979	51,782	32,088	19,694	73.8	77.1	70.2
1980	55,700	34,173	21,527	69.3	71.7	64.1
1981	57,239	33,480	23,759	68.2	73.9	59.8
1982	58,927	34,610	24,317	70.4	77.7	60.0
1983	60,198	35,761	24,437	69.7	76.6	60.9
1984	64,588	38,358	26,230	76.0	82.6	69.1

1/ Except 1967 (December) and 1968 (November).

2/ Data for 1976 and later years omit several major hotels.

3/ Data include Oahu outside Waikiki, not shown separately.

Source: Hawaii Visitors Bureau, Annual Research Report (annual), Visitor Plant Inventory (three times a year), and records.

Table 652.-- VISITOR ACCOMMODATIONS, TOTAL AND CONDOMINIUM: 1975 TO 1985

[As of February]

Year	All visitor accommodations 1/		Condominiums 2/	
	Properties	Units	Properties 3/	Units 4/
1975	294	39,632	...	...
1976	314	42,648	...	...
1977	335	44,986	...	5,085
1978	353	47,070	...	7,069
1979	381	49,832	...	8,533
1980	387	54,246	...	11,637
1981	412	56,769	198	14,194
1982	417	57,968	209	14,400
1983	426	58,765	208	13,413
1984	443	62,448	234	17,602
1985	481	65,919	274	21,804

1/ Hotels, motels, apartment-hotels, and cottages, including condominium accommodations in rental pools for transient use.

2/ Condominium accommodations in rental pools for transient use.

3/ First reported separately in October 1980.

4/ First reported separately in February 1977.

Source: Hawaii Visitors Bureau, Visitor Plant Inventory, February issues.

Table 653.-- HOTELS AND OTHER ACCOMMODATIONS, BY GEOGRAPHIC AREAS: FEBRUARY 1985

Geographic area	All accommodations 1/		Condominiums 2/	
	Properties	Units	Properties	Units
State total ...	481	65,919	274	21,804
Oahu	172	38,600	62	9,016
Waikiki 3/	138	33,879	51	7,620
Rest of Oahu	34	4,721	11	1,396
Other islands	309	27,319	212	12,788
Hawaii	78	7,511	47	2,279
Kauai	72	5,656	42	2,076
Maui	151	13,515	117	7,838
Molokai	7	627	6	595
Lanai	1	10	-	-

1/ Hotels, apartment hotels, motels, etc., including condominium accommodations in rental pools for transient use.

2/ Condominium accommodations in rental pools for transient use.

3/ Includes Diamond Head and Kahala but not areas ewa and mauka (west and north) of the Ala Wai Canal. The 138 properties include 64 hotels (with 25,263 units), 51 condominiums (with 7,620 units), 22 apartment hotels (with 984 units), and 1 cottage facility (with 12 units).

Source: Hawaii Visitors Bureau, Visitor Plant Inventory, February 1985.

Table 654.- GENERAL EXCISE TAX BASE FOR RENTALS: 1974 TO 1984

[In thousands of dollars. Data are on a cash basis accounting and may be distorted by cutoffs, out-of-period adjustments (assessments and error corrections), taxpayer reporting in wrong categories, and computer problems]

Year reported 1/	Total	Hotel rentals	All other rentals 2/
1974	893,347	319,109	574,237
1975	1,019,792	365,919	653,873
1976	1,161,955	433,300	728,655
1977 3/	1,274,918	482,990	791,929
1978 3/	1,392,947	535,874	857,073
1979	1,699,947	672,098	1,027,848
1980	1,820,715	708,620	1,112,095
1981	2,040,505	770,705	1,269,800
1982	2,265,287	844,926	1,420,361
1983	2,470,820	876,227	1,594,593
1984	2,743,855	984,518	1,759,337

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

2/ Includes residential, office, automobile, and equipment rentals, and land leases.

3/ Partly estimated.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 655.-- HOTEL OCCUPANCY AND ROOM RATES, AND FOOD AND BEVERAGE SALES, BY ISLANDS: ANNUAL AVERAGES, 1983 AND 1984

[1983 figures revised from Data Book 1984, table 697]

Subject and year	The State	Oahu	Hawaii	Maui	Kauai
Percentage of occupancy:					
1983	70.33	76.29	46.31	75.21	57.19
1984	76.03	81.24	55.58	80.48	63.04
Average daily room rate (dollars):					
1983	55.58	47.62	50.49	81.60	59.75
1984	59.25	49.45	57.17	88.89	65.05
Average daily guest rate (dollars):					
1983	28.35	24.62	25.64	40.41	29.71
1984	29.59	24.91	29.00	43.64	31.31
Average daily food sales per room (dollars):					
1983	21.10	17.34	22.58	31.24	24.34
1984	20.64	16.43	26.44	30.42	22.95
Average daily beverage sales per room (dollars):					
1983	7.51	5.90	8.93	11.79	8.24
1984	7.42	5.57	10.40	11.53	8.42
Average food sales per cover (dollars):					
1983	9.74	9.17	9.07	11.11	10.09
1984	9.67	8.67	10.96	11.10	10.41

Source: Pannell Kerr Forster, Trends in the Hotel Industry, Hawaii, December 1984.

Table 656.-- HOTEL EMPLOYMENT AND PAYROLL RATIOS: 1977 TO 1984

[All series in this table exclude condominium units in rental pools for transient occupancy]

Year	Hotel units, June	Hotel employment, annual average 1/		Hotel payrolls, annual 1/		
		Total	Per unit	Total ($1,000)	Per unit (dollars)	Per worker (dollars)
1977	40,221	22,313	0.555	175,602	4,366	7,870
1978	40,856	22,548	0.552	195,861	4,794	8,686
1979	41,726	23,735	0.569	218,954	5,247	9,225
1980	43,790	24,754	0.565	244,655	5,587	9,883
1981	42,365	24,626	0.581	264,433	6,242	10,738
1982	45,175	26,475	0.586	291,344	6,449	11,004
1983	45,315	26,888	0.593	329,267	7,266	12,246
1984	44,849	28,262	0.630	369,292	8,234	13,067

1/ For workers covered by the Hawaii Unemployment Security Law.

Source: Hawaii Visitors Bureau, Visitor Plant Inventory (June issues) and Annual Research Report; Hawaii State Department of Labor and Industrial Relations, Employment and Payrolls in Hawaii (annual).

Table 657.-- PERCENT OF HOTEL UNITS OCCUPIED, BY GEOGRAPHIC AREAS: ANNUAL AVERAGES, 1980 TO 1984

Geographic area	1980	1981	1982	1983	1984
State total	69.3	68.2	70.4	69.7	76.0
Oahu	72.3	74.1	77.8	75.8	81.2
Waikiki	71.7	73.9	77.7	76.6	82.6
Hawaii	51.0	44.9	44.0	44.7	55.6
Hilo	34.4	35.3	37.7	39.2	58.2
Kailua-Kona	59.0	49.4	46.9	47.0	54.9
Maui	74.2	70.3	73.9	75.2	80.5
West Maui	76.1	73.7	78.0	77.8	84.1
Other	68.4	58.3	61.4	67.0	70.3
Kauai	69.6	62.7	57.5	57.2	63.0
South	52.5	46.2	44.2	50.2	63.1
East	75.1	68.5	63.4	59.3	63.0

Source: Hawaii Visitors Bureau, Annual Research Report for 1980-1984 and records, from surveys by Pannell Kerr Forster for the Hawaii Hotel Association.

Table 658.-- TRAVEL AGENCIES, TOUR OPERATORS, AND RELATED SERVICES, BY COUNTIES: 1983

Subject	State total	Honolulu	Hawaii	Kauai and Maui
Establishments with payroll	424	360	27	1/ 37
Employees, week including March 12 ...	4,129	3,607	226	296
Annual payroll ($1,000)	48,100	43,429	2,251	2,420

1/ Kauai County, 11; Maui County, 26.

Source: Data for SIC 4722, passenger transportation arrangement, in U.S. Bureau of the Census, County Business Patterns 1983, Hawaii, CBP-83-13 (August 1985).

Table 659.-- MOTION PICTURE AND TELEVISION PRODUCTION: 1976 TO 1984

Year	Number of features filmed				Employment	
	Total	Feature films		Television specials and series 3/	Total	Direct only
		For theater viewing	For TV viewing			
1976	31	3	1	27	918	622
1977	63	4	5	54	1,265	856
1978	58	3	5	50	1,610	1,091
1979	54	6	8	40	2,543	1,723
1980 4/ .	58	6	2	50	1,551	1,051
1981 5/ .	54	2	1	51	1,244	843
1982	66	1	3	62	2,625	1,567
1983	63	1	2	60	2,575	1,745
1984	76	2	2	72	2,720	1,850

Year	Gross budgets 1/ (millions of dollars)			Expenditures in Hawaii 2/ (millions of dollars)	Tax revenues generated (millions of dollars)	Spending effect on economy (millions of dollars)
	Total	Feature films and TV specials and series	TV commercials and related advertising			
1976	26	20	6	11	1.01	25.0
1977	39	30	9	16	1.51	36.4
1978	45	36	9	22	2.04	50.0
1979	78.5	63.5	15.0	34.75	3.14	79.0
1980 4/ .	47.5	36.5	11.0	21.2	1.9	48.2
1981 5/ .	40.0	32.0	8.0	17.0	1.5	38.7
1982	50.0	37.6	12.4	31.6	2.98	71.9
1983	65.5	41.2	24.3	35.2	3.32	80.1
1984	77.1	53.4	23.7	38.2	3.54	86.9

1/ Includes post-production costs out of State.

2/ For feature films and television specials and series.

3/ Each program in a series counted separately.

4/ Activity affected by a prolonged strike of the Screen Actors Guild and changes in immigration regulation enforcement policies, which brought filming of foreign television commercials to a virtual halt.

5/ Activity affected by a writers' strike, directors' strike, and continuation of the strict enforcement of immigration regulations.

Source: Hawaii State Department of Planning and Economic Development, Film Industry Branch, records.

Table 660.-- MOTION PICTURE SERVICES: 1977 AND 1982

[Data limited to establishments with payroll]

Subject and year	Number of establishments	Receipts ($1,000)	Annual payroll ($1,000)	Paid employees, week inc. Mar. 12
Motion picture production, distribution, and services:				
1977	11	926	174	31
1982	15	4,203	1,147	74
Motion picture theaters:				
1977 1/	50	17,444	(D)	(D)
1982	34	21,329	3,195	519

D Withheld to avoid disclosing data for individual companies.

1/ Data include 3 establishments without payroll.

Source: U.S. Bureau of the Census, 1977 Census of Service Industries, Hawaii, SC77-A-12 (December 1979), and 1982 Census of Service Industries, Hawaii, SC82-A-12 (September 1984).

Section 24

FOREIGN AND INTERSTATE COMMERCE

This section includes data on the flow of goods, services, and capital between Hawaii and the rest of the world, with particular emphasis on trade and investment involving foreign countries.

Imports to Hawaii from foreign nations rose from $645 million in 1974 to $1.6 billion in 1984. Exports to foreign countries amounted to only $115 million in 1974, but by 1984 reached $316 million. These figures, it should be noted, refer to merchandise imports and exports through the Honolulu Customs District. They do not necessarily represent exports of commodities originating in Hawaii, nor imports for direct consumption within the State.

Trade with the Mainland United States has similarly risen in the past decade. Merchandise received from the Mainland increased from $1.3 billion in 1970 to $4.9 billion in 1983. Estimates of the value of merchandise shipped to the Mainland are no longer available.

Among the foreign nations, Hawaii's leading trading partners in 1984 were Indonesia for imports and Taiwan for exports. Imports from Indonesia amounted to $373 million, or 2.3 percent of the total, while exports to Taiwan reached $64 million or 20 percent of all foreign exports. About 57 percent of all imports for consumption were petroleum and natural gas products and monolithic integrated circuits.

Honolulu Foreign Trade Zone No. 9 handled merchandise valued at $46 million in fiscal 1984. Merchandise handled by Subzone No. 9A, the PRI refinery, was valued at $1.3 billion, almost all of it in petroleum and petroleum products.

Foreign-owned U.S. firms in Hawaii operated 276 establishments in 1982, and employed 14,000 persons with an annual payroll of $198 million. Foreign investments in Hawaii between 1959 and 1984 exceeded $2.2 billion.

Sources for statistics on interstate and foreign commerce include the U.S. Bureau of the Census and Bureau of Economic Analysis, Foreign Trade Zone No. 9 and Subzone No. 9A, and the International Services Branch of the Hawii State Department of Planning and Economic Development. Further information appears in cargo data by origin and destination, compiled by the Army Corps of Engineers and cited in Section 18.

Comparable data for the nation as a whole appear in Section 31 of Statistical Abstract of the United States: 1985. Long-term Island trends are summarized in Historical Statistics of Hawaii, Section 21.

Table 661.-- INTERSTATE AND FOREIGN TRADE: 1958 TO 1983

[Merchandise imports and exports, foreign and domestic, in millions of current dollars]

Year	Merchandise imports					Merchandise exports, total 1/
	Total	Domestic			Foreign	
		Total	Waterborne	Air		
1958	459.2	425.8	340.0	85.8	33.4	253.2
1959	499.4	465.2	379.3	85.9	34.2	276.1
1960	587.2	540.3	452.7	87.6	46.9	263.8
1961	571.8	512.4	425.3	87.1	59.3	281.5
1962	568.4	499.7	413.7	86.0	68.7	293.7
1963	644.2	569.6	482.8	86.9	74.6	334.4
1964	676.4	590.3	502.6	87.6	86.1	321.5
1965	1,189.9	1,093.2	1,004.5	88.6	96.8	331.6
1966	962.6	857.5	767.7	89.8	105.1	351.2
1967	848.5	723.4	631.3	92.0	125.1	372.7
1968	996.0	853.4	759.0	94.4	142.6	377.7
1969	1,045.3	874.3	775.8	98.5	171.0	326.2
1970	1,431.5	1,256.8	1,172.5	84.3	174.7	358.6
1971	1,258.1	1,034.6	888.7	145.9	223.6	431.8
1972	1,462.5	1,218.8	1,082.2	136.6	243.7	371.8
1973	1,892.9	1,578.0	1,460.1	117.9	314.9	570.6
1974	2,510.0	1,962.9	1,825.0	137.8	547.2	1,036.3
1975	2,843.0	2,044.8	1,872.8	172.0	798.2	874.3
1976	3,310.8	2,488.8	2,269.2	219.5	822.0	879.6
1977	3,792.1	2,885.1	2,648.3	236.8	907.1	936.5
1978	3,973.1	2,967.9	2,716.9	251.0	1,005.2	1,032.8
1979	5,001.2	3,897.0	3,636.9	260.1	1,104.3	1,182.3
1980	6,239.4	4,779.7	4,577.9	201.9	1,459.7	1,562.4
1981	6,241.3	4,716.1	4,500.2	215.9	1,525.2	1,289.1
1982	5,808.9	4,575.4	(NA)	231.6	1,233.5	1,274.4
1983	6,243.7	4,878.2	(NA)	(NA)	1,365.5	1,439.2

1/ Not available separately for foreign and domestic exports.

Source: Hawaii State Department of Planning and Economic Development, Hawaii's Income and Expenditure Accounts: 1958-1983 (October 1985).

Table 662.-- FOREIGN TRADE THROUGH THE HONOLULU CUSTOMS DISTRICT: 1974 TO 1984

[Value, in millions of dollars, of U.S. imports and exports entered or exported through the Honolulu Customs District. The data may include imports intended for consumption on the Mainland and exports originated on the Mainland]

Year	General imports 1/	Imports for consumption 1/	Exports of foreign and domestic merchandise 2/
1974	645.3	605.5	115.2
1975	784.4	757.6	95.7
1976	915.1	876.5	66.2
1977	1,038.2	988.1	98.3
1978	1,184.5	1,126.4	137.8
1979	1,334.6	1,238.5	176.1
1980	1,842.0	1,721.4	174.3
1981	1,982.2	1,525.4	237.7
1982	1,732.7	1,509.4	219.0
1983	1,828.0	1,433.5	203.3
1984	1,614.2	1,397.9	316.9

1/ Customs value basis. Excludes vessels under their own power or afloat and shipments valued under $251.

2/ Totals are on f.a.s. (free alongside ship) basis.

Source: U.S. Bureau of the Census, Highlights of U.S. Export and Import Trade, FT 990, cumulative totals in December issues.

Table 663.-- FOREIGN TRADE THROUGH THE HONOLULU CUSTOMS DISTRICT, BY METHOD OF TRANSPORTATION: 1984

[See headnote to preceding table]

Category and method of transportation	Value 1/ (million dollars)	Shipping weight (million pounds)
General imports, all methods 2/	1,614.2	(NA)
Vessel	999.0	6,285.5
Air	724.2	31.7
Imports for consumption, all methods 3/	1,397.9	(NA)
Exports, all methods 2/	316.9	(NA)
Vessel	144.3	1,373.7
Air	108.8	22.5

NA Not available.

1/ Customs value basis for imports; f.a.s. (free alongside ship) value basis for exports. See source for definitions.

2/ Includes categories not tabulated by method of transportation, not shown separately.

3/ Not available by method of transportation.

Source: U.S. Bureau of the Census, Highlights of U.S. Export and Import Trade, FT 990, December 1984, tables A-6, C-10, and C-11.

Table 664.-- FIREWORKS IMPORTED INTO THE HONOLULU CUSTOMS DISTRICT: 1980 TO 1984

Year	Pounds	Value (dollars)
1980	1,654,953	2,059,943
1981	1,156,260	1,571,283
1982	871,304	1,210,675
1983	76,537	101,438
1984	458,197	728,892

Source: U.S. Bureau of the Census, Foreign Trade Statistics, IA 253 (annual tabulations, 1980-1982) and IA 245-X (1983 and 1984).

Table 665.-- IMPORTS AND EXPORTS THROUGH THE HONOLULU CUSTOMS DISTRICT, BY REGION OF ORIGIN OR DESTINATION: 1983 AND 1984

[In dollars. Includes all foreign trade through the Honolulu Customs District, and thus may include imports intended for consumption in other States or exports originated in other States. Excludes imports intended for consumption in Hawaii but entering through other customs districts, and exports originated in Hawaii but shipped through other customs districts]

Region	Imports for consumption		Exports of domestic merchandise	
	1983	1984	1983	1984
All regions	1,827,978,905	1,614,157,805	203,322,156	316,882,059
North America 1/	26,766,209	24,623,911	10,942,958	13,145,181
Latin America 2/	33,895,168	19,504,441	5,246,149	1,439,331
Europe	93,827,196	105,839,232	4,175,719	1,627,408
Asia	1,606,338,743	1,307,837,312	121,884,940	201,399,427
Australia and Oceania ...	66,320,325	156,105,230	60,679,848	99,183,487
Africa	831,264	247,679	392,542	87,225

1/ Excluding Latin America.

2/ Includes Central and South America, Bermuda, and the Caribbean.

Source: Hawaii State Department of Planning and Economic Development, International Services Branch, Hawaii's Foreign Trade, A Statistical Digest (annual).

Table 666.-- IMPORTS AND EXPORTS THROUGH THE HONOLULU CUSTOMS DISTRICT, BY COUNTRY OF ORIGIN OR DESTINATION: 1984

[See headnote to preceding table]

Country 1/	Total	Imports for consumption	Exports of domestic merchandise
All countries	1,931,039,864	1,614,157,805	316,882,059
Japan	418,660,218	364,009,818	54,650,400
Indonesia	386,484,274	373,073,428	13,410,846
Taiwan (Republic of China) ..	209,307,330	145,229,818	64,077,512
Singapore	204,602,456	202,993,865	1,608,591
Australia	182,027,497	127,627,209	54,400,288
Philippines	76,959,173	76,053,444	905,729
Malaysia	61,033,189	60,995,929	37,260
Korea, Republic of	57,996,125	41,183,267	16,812,858
China, People's Republic of .	51,439,371	5,987,873	45,451,498
New Zealand	38,601,310	25,274,822	13,326,488
Canada	37,769,092	24,623,911	13,145,181
France	36,759,966	36,721,681	38,285
Hong Kong	34,018,695	30,653,605	3,365,090
Italy	19,674,530	19,224,306	450,224
Trust Territory of the Pacific Islands	17,938,723	682,640	17,256,083
United Kingdom	14,998,707	14,763,452	235,255
West Germany	11,005,985	10,978,422	27,563
Switzerland and Liechtenstein	10,350,494	10,331,105	19,389
Netherlands Antilles	7,570,615	7,570,615	-
Papua New Guinea	7,381,053	220,013	7,161,040
Venezuela	6,541,787	6,489,132	52,655
Denmark	5,864,238	5,860,571	3,667
Other Pacific Islands 2/	5,538,125	238,390	5,299,735
Thailand	3,889,625	3,150,698	738,927
Bahamas	2,896,052	2,798,303	97,749

1/ Shown separately for the 25 leading countries in total foreign trade through the District.

2/ Excludes Pacific islands listed above, and also French Pacific islands, British Pacific islands, and Western Samoa.

Source: Hawaii State Department of Planning and Economic Development, International Services Branch, *Hawaii's Foreign Trade 1984, A Statistical Digest*, International Business Series No. 41 (August 1985), p. 2.

Table 667.-- IMPORTS AND EXPORTS OF PETROLEUM, NATURAL GAS, AND PRODUCTS THEREOF THROUGH THE HONOLULU CUSTOMS DISTRICT, BY COUNTRY OF ORIGIN OR DESTINATION: 1984

[See headnote to table 665]

Country 1/	Dollars
IMPORTS	
All countries	519,462,096
Indonesia	371,319,704
Australia	108,866,421
Malaysia	22,443,684
Netherlands Antilles	7,570,615
Venezuela	6,457,457
EXPORTS	
All countries	92,242,539
Taiwan (Republic of China)	61,547,096
Japan	14,360,862
Korea, Republic of	8,157,894
Papua New Guinea	6,944,887
Hong Kong	612,553

1/ Shown separately for the five leading countries in each category.

Source: Hawaii State Department of Planning and Economic Development, International Services Branch, Hawaii's Foreign Trade 1984, A Statistical Digest (International Business Series No. 41, August 1985), pp. 18 and 27.

Table 668.-- IMPORTS OF MONOLITHIC INTEGRATED CIRCUITS THROUGH THE HONOLULU CUSTOMS DISTRICT, BY COUNTRY OF ORIGIN: 1984

[See headnote to table 665]

Country 1/	Dollars
All countries	398,834,867
Singapore	193,453,125
Taiwan (Republic of China)	92,995,933
Philippines	56,218,877
Malaysia	33,837,028
Republic of Korea	12,081,698

1/ Shown separately for the five leading countries.

Source: Hawaii State Department of Planning and Economic Development, International Services Branch, Hawaii's Foreign Trade 1984, A Statistical Digest (International Business Series No. 41, August 1985), p. 19.

Table 669.-- EXPORTS OF AIRCRAFT AND SPACECRAFT, BY COUNTRY OF DESTINATION: 1984

[See headnote to table 665]

Country 1/	Dollars
All countries	73,545,218
China, People's Republic of	39,462,618
Indonesia	13,292,858
Australia	9,160,550
New Zealand	5,349,647
Japan	3,265,300

1/ Shown separately for the five leading countries.

Source: Hawaii State Department of Planning and Economic Development, International Services Branch, Hawaii's Foreign Trade 1984, A Statistical Digest (International Business Series No. 41, August 1985), p. 28.

Table 670.-- IMPORTS AND EXPORTS THROUGH THE HONOLULU CUSTOMS DISTRICT, BY COMMODITY CLASSIFICATION: 1984

[See headnote to table 665]

Commodity	Imports for consumption	Exports of domestic mdse.
All commodities	1,614,157,805	316,882,059
Animal and vegetable products	100,338,791	33,976,448
Wood and paper; printed matter	23,793,525	5,578,162
Textile fibers and products	31,949,656	1,455,501
Chemicals and related products	535,930,153	97,750,382
Petroleum, natural gas, and products derived therefrom	519,462,096	92,242,539
Other chemicals and related products	16,468,057	5,507,843
Nonmetallic minerals and products	18,456,353	465,323
Metals and metal products	741,908,832	139,100,343
Integrated circuits	398,901,163	299,040
Motor vehicles	207,484,225	1,774,647
Aircraft and spacecraft	7,330,779	73,545,218
Other metals and metal products	128,192,665	63,481,438
Specified miscellaneous products	147,072,450	32,556,230
Special classification provisions	14,214,594	5,999,670
Temporary provisions	493,451	-

Source: Hawaii State Department of Planning and Economic Development, International Services Branch, Hawaii's Foreign Trade 1984, A Statistical Digest (International Business Series No. 41, August 1985), pp. 13-17 and 22-26.

Table 671.-- FOREIGN-TRADE ZONE NO. 9 OPERATIONS: 1968 TO 1985

[Years ended June 30 through 1976 and September 30 thereafter.
Foreign-Trade Zone No. 9 began operation June 15, 1966]

Fiscal years	Firms using zone	User employment at zone 1/	Value of merchandise ($1,000)		Revenue (dollars)	Expenditures (dollars)
			In/out	Exports		
1968 ..	82	42	6,279	498	88,060	122,718
1969 ..	94	56	10,078	1,187	120,990	122,628
1970 ..	124	65	11,682	1,850	160,438	156,424
1971 ..	138	57	17,363	3,147	206,159	193,450
1972 ..	132	58	20,648	2,894	289,301	229,379
1973 ..	140	83	23,442	2,775	267,393	260,251
1974 ..	139	113	25,394	6,140	355,737	325,633
1975 ..	148	131	29,828	6,317	463,008	415,371
1976 ..	179	139	24,396	4,576	481,172	429,496
1977 ..	205	145	25,702	3,956	700,470	606,720
1978 ..	191	193	29,095	4,395	835,004	574,044
1979 ..	204	221	34,928	4,450	545,380	568,607
1980 ..	211	263	37,118	6,396	638,961	615,361
1981 ..	186	274	46,188	12,093	750,676	714,750
1982 ..	178	263	52,483	11,957	744,741	780,932
1983 ..	190	203	48,312	11,839	965,590	1,032,675
1984 ..	198	224	46,312	10,596	1,107,107	996,236
1985 ..	229	218	39,376	6,196	1,122,722	1,058,802

1/ For firms occupying facilities on a continuing basis only.

Source: Hawaii State Department of Planning and Economic Development, Foreign-Trade Zone No. 9, annual reports and records.

Table 672.-- FOREIGN-TRADE SUBZONE NO. 9A OPERATIONS: 1972 TO 1985

[Years ended June 30 through 1976 and September 30 thereafter.
Foreign-Trade Subzone No. 9A began operation April 7, 1972]

Fiscal years	User employment at subzone 1/	Merchandise, in/out		Exports	
		Quantity (1,000 short tons)	Value ($1,000)	Quantity (1,000 short tons)	Value ($1,000)
1972 ..	45	453.0	9,300	41.1	1,106
1973 ..	73	3,250.0	76,760	1,178.1	33,614
1974 ..	95	3,046.8	156,454	564.0	52,436
1975 ..	(NA)	3,794.6	340,996	707.1	72,003
1976 ..	159	5,755.7	534,023	815.2	80,719
1977 ..	156	6,349.6	608,815	893.2	83,134
1978 ..	139	6,837.5	705,711	1,178.5	117,247
1979 ..	149	6,507.8	862,559	1,070.1	149,646
1980 ..	161	6,408.9	1,471,841	1,184.5	295,528
1981 ..	182	6,188.2	1,728,457	1,396.3	406,084
1982 ..	203	6,781.3	1,758,180	1,952.9	531,437
1983 ..	203	6,944.5	1,491,063	2,047.6	461,298
1984 ..	205	7,405.6	1,348,745	1,995.5	363,698
1985 ..	212	7,680.5	1,450,466	2,075.3	402,568

NA Not available.

1/ For firms occupying facilities on a continuing basis only.

Source: Hawaii State Department of Planning and Economic Development, Foreign-Trade Zone No. 9, annual reports and records.

Table 673.-- CHARACTERISTICS OF ESTABLISHMENTS OF FOREIGN-OWNED U.S. FIRMS IN HAWAII: 1980 TO 1982

Kind of establishment and year	Firms	Establishments	Employment	Payroll, annual ($1,000)
All foreign-owned firms:				
1980	91	263	11,738	157,084
1981	97	276	12,495	175,501
1982	100	276	14,036	198,470
Manufacturing:				
1980	...	14	723	14,055
1981	...	10	728	16,293
1982	...	10	620	14,017
Nonmanufacturing:				
1980	...	249	11,015	143,029
1981	...	266	11,767	159,208
1982	...	266	13,416	184,453

Source: U.S. Bureau of the Census, _Selected Characteristics of Foreign-Owned U.S. Firms: 1980_, Series FOF, No. 4 (June 1982), _Selected Characteristics of Foreign-Owned U.S. Firms: 1981_, Series FOF, No. 5 (March 1983), and _Selected Characteristics of Foreign-Owned U.S. Firms: 1982_, Series FOF, No. 6 (April 1984).

Table 674.-- FOREIGN DIRECT INVESTMENT IN HAWAII: 1980 TO 1982

[Data for Hawaii nonbank affiliates of U.S. business enterprises owned 10 percent or more, directly or indirectly, by a foreign person]

Subject	1980	1981	1982
Number of affiliates:			
With property, plant, and equipment	179	(NA)	(NA)
With employment	173	(NA)	(NA)
Gross book value of property, plant, and equipment of affiliates (million dollars)	1,020	(D)	(D)
Japanese-owned	565	(D)	(D)
Others	455	(D)	(D)
Employment, by country of ultimate beneficial owner	15,509	16,996	15,425
Canada	745	676	573
European counties	1,498	1,555	1,534
Japan	9,034	9,097	9,177
Other countries	4,232	5,668	4,141
Wages and salaries of affiliates (million dollars)	173	(NA)	(NA)
Japanese-owned	83	(NA)	(NA)
Others	90	(NA)	(NA)
Land owned (1,000 acres)	96	111	109

D Withheld to avoid disclosure of data for individual companies.

NA Not available.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Foreign Direct Investment in the United States, 1980 (October 1983), pp. 74, 84, 119, 122, and 127; "U.S. Affiliates of Foreign Companies: Operations in 1981," Survey of Current Business, November 1983, pp. 19-34; and "U.S. Affiliates of Foreign Companies: Operations in 1982," Survey of Current Business, December 1984, pp. 26-40.

Table 675.-- EMPLOYMENT RELATED TO MANUFACTURED EXPORTS: 1977, 1980 AND 1981

Subject	1977	1980	1981
Employment related to manufactured exports, total	2,700	6,100	6,400
Manufacturing industries	700	1,100	1,200
Nonmanufacturing industries	2,000	5,000	5,200
Employment related to manufactured exports as percent of --			
Total civilian employment	0.7	1.7	1.5
Total private sector employment	1.0	2.0	1.9

Source: U.S. Bureau of the Census, 1977 Census of Manufactures, Origin of Exports of Manufactured Products, MC77-SR-12 (June 1981), table 2a, and 1981 Annual Survey of Manufactures, Origin of Exports of Manufactured Products (Including revised 1980 data), M81(AS)-5 (May 1983), pp. 14-15.

Table 676.-- AGRICULTURAL LANDHOLDINGS OF FOREIGN OWNERS: OCTOBER 8, 1984

Subject	Amount
Parcels owned by foreigners	57
Individuals	24
Organizations	33
Acres owned by foreigners	59,812
Percent of all privately owned agricultural land 1/	3.0
Individuals	7,315
Organizations	52,497
Value of foreign-owned agricultural land ($1,000):	
At time of acquisition	51,653
Adjusted current value	54,355

1/ The percent for Hawaii ranked fourth among the 50 States, exceeded only by Maine (15.5 percent), Georgia (3.4), and South Carolina (3.3), and well above the national percentage (1.1).

Source: U.S. Department of Agriculture, Economic Research Service, Foreign Ownership of U.S. Agricultural Land Through December 31, 1984 (Staff Report No. AGES 850320, April 1985), pp. 6, 9, and 12.

Table 677.-- FOREIGN INVESTMENTS IN HAWAII, TOTAL AND JAPANESE: ANNUALLY, 1959 TO 1984

[In thousands of dollars. Estimates based on incomplete reporting]

Year	Total foreign investments	Investments by Japanese
Total completed	2,263,532	1,578,276
1970 and earlier years	53,220	48,020
1971	8,300	8,300
1972	97,167	95,717
1973	163,935	91,635
1974	175,134	139,684
1975	27,250	12,250
1976	70,740	55,940
1977	32,200	17,800
1978	94,500	13,500
1979	308,570	165,250
1980	139,485	80,100
1981	100,525	62,300
1982	628,730	489,880
1983	215,676	196,900
1984, to August	148,100	101,000
Future completions	257,300	124,500

Source follows next table.

Table 678.-- FOREIGN INVESTMENTS IN HAWAII, BY COUNTRY OF INVESTOR AND TYPE OF INVESTMENT: CUMULATIVE, 1959 TO 1984

[In thousands of dollars. Estimates based on incomplete reporting]

Country of investor and type of investment	Amount
Cumulative total 1/	2,263,532
Country of investor:	
Australia	42,600
Bermuda	15,000
British West Indies	575
Canada	160,220
France	15,900
Hong Kong	226,425
Japan	1,578,276
Korea	9,450
Netherlands	(NA)
Netherlands Antilles	34,285
New Herbrides (Vanuatu)	2,500
New Zealand	(NA)
Taiwan	13,500
United Kingdom	164,801
Type of investment:	
Agriculture	1,100
Banks	56,419
Condominiums	450,800
Golf courses	39,267
Hotels	634,000
Manufacturing	18,030
Other real estate	770,605
Restaurants	9,325
Retailing and wholesaling	75,265
Science and education	51,001
Miscellaneous	157,720

NA Not available.

1/ Excludes $257.3 million in projects to be completed after August 1984.

Source: Hawaii State Department of Planning and Economic Development, International Services Branch, A Listing of Foreign Investments in Hawaii (International Business Series No. 39, October 1984).

BIBLIOGRAPHY

This volume is the nineteenth in a series published by the Hawaii State Department of Planning and Economic Development and its predecessor agencies. The first was Statistical Abstract of Hawaii, 1962, issued by the Department of Planning and Research in 1962. After a four-year hiatus, updated versions titled The State of Hawaii Data Book were published by the Department of Planning and Economic Development in 1967, 1968, and annually beginning in 1970. All of the volumes issued prior to the 1984 edition are now out of print, but copies can be consulted in the DPED Library, Hawaii State Library, University of Hawaii and community college libraries, Honolulu Municipal Reference Library, and other collections throughout the State.

Additional information regarding specific statistical sources can be found in the introductory statements to each section of the Data Book, in footnotes and source references to the various tables, and in the underlying reports.

Although most of the series in the Data Book are shown only for recent years, earlier figures can usually be found in Historical Statistics of Hawaii, by Robert C. Schmitt. This book, published by the University Press of Hawaii in 1977, contains 711 pages of narrative and tables on the development of statistics in Hawaii since the 18th century. Copies are available from the University of Hawaii Press and various book stores for $30.00.

Privately published works of general statistical reference include Hawaii Facts and Figures and All About Business in Hawaii. Hawaii Facts and Figures is a publication of the Chamber of Commerce of Hawaii, first issued (under a different title) almost fifty years ago. The most recent edition appeared early in 1985, with statistics through 1984; copies are available from the Chamber for $3.00. All About Business in Hawaii 1985 is the 13th in an annual series published by Crossroads Press, Inc. The current edition costs $3.75.

The County of Hawaii, Department of Research and Development, has published its own County of Hawaii Data Book 1980, presenting 264 pages of statistics for the Big Island. This report, dated December 1980, is sold for $7.50 (postpaid, $10.00).

A similar report for Kauai, 1984 Kauai Statistical Review: An Annual Report of the County's Economic Indicators, is available from the Kauai Office of Economic Development. The most recent edition, released in 1985, contains 27 pages of tables.

Persons interested in comparisons between Hawaii and other States or the nation as a whole should consult the Statistical Abstract of the United States and its companion volumes, the State and Metropolitan Area Data Book and County and City Data Book. The Abstract is an annual publication of the

U.S. Bureau of the Census, initiated in 1878. The current edition is the 105th, dated 1985; copies are available for $23.00 (cloth) or $19.00 (paper) from the Superintendent of Documents, U.S. Government Printing Office, Washington, D. C. 20402. The State and Metropolitan Area Data Book, 1982, also available from GPO, costs $15.00. The County and City Data Book, 1983 is sold by the same agency for $24.00. All three volumes are on the shelves of major libraries.

Table A.-- PRINTING HISTORY OF THE STATE OF HAWAII DATA BOOK: 1962 TO 1985

Edition	Number of pages	Number of tables	Price (dollars)		Printing costs (dollars)	Number of copies printed
			Hawaii	Outside State		
1962 1/	128	243	1.00	1.00	(NA)	(NA)
1967	66	95	(NA)	(NA)	1,969.45	3,000
1968	69	99	1.00	1.00	2,969.20	3,000
1970	136	135	1.00	1.00	2,470.92	2,030
1971	159	152	2.00	2.00	4,149.60	2,000
1972 2/	227	210	4.00	5.00	6,245.00	3,000
1973	290	262	4.00	5.00	6,309.00	1,500
1974	306	292	4.00	5.00	9,330.00	2,000
1975	302	309	4.00	5.00	10,222.95	2,000
1976	312	335	4.00	5.00	9,901.13	2,000
1977	339	374	4.00	5.00	11,990.00	2,000
1978	379	425	4.00	5.00	8,900.00	2,000
1979	447	407	4.00	5.00	10,744.00	2,500
1980	545	496	5.00	10.00	12,335.00	2,500
1981	603	563	5.00	10.00	14,910.00	3,000
1982	596	566	5.00	10.00	15,633.00	3,000
1983	663	622	5.00	10.00	15,875.00	2,500
1984 3/	762	724	5.00	15.00	32,003.00	3,000
1985	662	680	5.00	15.00	19,995.00	3,000

NA Not available.

1/ The 1962 edition was titled Statistical Abstract of Hawaii, 1962. In addition, a 41-page, 57-table supplement, Historical Statistics of Hawaii, 1778-1962, was published and distributed without extra charge to persons receiving the regular edition.

2/ A 19-page supplement, State of Hawaii Census Tract Maps and Directory of Hawaii Map Sources, was included with each copy of the regular edition, and was not sold separately.

3/ Two printings.

Source: DPED records.

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CORRECTION SHEET

THE STATE OF HAWAII DATA BOOK 1985

On page 65, the title to table 48 omits the word "to". The correct title is: "Migration of Old-Age and Survivors Insurance Beneficiaries, Age 65 and Over, To and From Hawaii: 1962 to 1982."

On page 349, in the second paragraph, line 7, per capita personal income in 1984 should be shown as $13,042, not $11,767.

On page 351, the unit of measurement for the first two columns of table 365 is thousands (not millions) of dollars.

The first entry on page 641 should read: "Endangered and extinct species," not "Endangered and extinct plants."

Although technically not errors, some of the statistics in this volume have been revised and/or updated since the copy went to the printer. Among the more important are the postcensal population estimates in tables 3 and 4, pages 14 and 15. Newly released estimates (from DPED Statistical Report 184) are as follows:

Type of population	1982 (rev.)	1983 (rev.)	1984 (rev.)	1985 (prov.)
Total resident population ...	997,800	1,019,500	1,037,200	1,053,900
Armed forces	54,900	55,200	57,300	56,400
Civilian population	942,900	964,300	979,900	997,500
Military dependents	66,700	66,300	67,100	64,300
Not military dependents .	876,200	898,100	912,800	933,200
Residents temporarily absent	14,500	11,500	16,100	19,900
Visitors present	105,300	108,000	118,700	116,000
De facto population	1,088,600	1,116,000	1,139,800	1,149,900

January 30, 1986